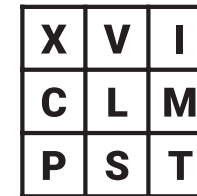


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**16<sup>th</sup> International Congress on Logic, Methodology  
and Philosophy of Science and Technology**  
**Bridging across academic cultures**

Faculty of Architecture, Czech Technical University in Prague  
Prague, Czech Republic

**5–10 August 2019**

Dear Logicians and Philosophers of Science,

On behalf of the Division of Logic, Methodology and Philosophy of Science and Technology of the International Union of History and Philosophy of Science and Technology (DLMPST/IUHPST), we should like to welcome all fellow researchers and scholars in our fields to the XVI Congress on Logic, Methodology, and Philosophy of Science and Technology (CLMPST) and look forward to your joining us in Prague in August 2019.

Our fields, logic and the philosophy of science and technology, traditionally form a nexus between disciplines, equally at home in the sciences, the humanities and the social sciences. As a consequence, many logicians and philosophers of science frequently act as mediators between disciplinary traditions and serve as translators of mutually unintelligible academic vernaculars.

Thus the theme of the 2019 congress, “Bridging across academic cultures”, is central to the experience of many among us.

The theme refers not only to the aforementioned academic cultures, so forcefully evoked in C. P. Snow’s 1959 Rede lecture, “The Two Cultures”, which celebrates its 60<sup>th</sup> anniversary in the year of our congress, but also to the highly topical cultural differences between various countries and regions around the globe. As the global representative of our fields, DLMPST/IUHPST seeks to enrich our scientific dialogue by including the voices of those traditionally underrepresented in our academic fields, be it due to geography, culture, ethnicity, or gender.

We are looking forward to hearing papers and symposia on all topics pertaining to our fields, from mathematical logic to metaphilosophy, from the foundations of the exact sciences to the philosophy of the social sciences, presented by researchers from all regions and cultures across the world. This will make the Prague congress an inspiring, inclusive and exciting event that truly bridges across academic cultures.

See you all in Prague,

Menachem Magidor  
President

Benedikt Löwe  
Secretary General

Dear Colleagues,

On behalf of the local organising team of the 16<sup>th</sup> CLMPST, let me welcome you all to Prague – a lively, safe and eye-catching city. In the past, Prague had been an important place in the development of both logic and the philosophy of science. It was the home of great logicians and philosophers such as Bernard Bolzano (1781–1848), Ernst Mach (1838–1916), Philipp Frank (1884–1966) and Rudolf Carnap (1891–1970). In 1929 Prague hosted the first preparatory congress on the epistemology of the exact sciences, organized jointly by the Ernst Mach Society and the Berlin-based Society for Empirical Philosophy. It was on this occasion that the famous Vienna Circle manifesto of the scientific conception of the world was first made public, 2019 marking the ninetieth anniversary of this event. Prague hosted the congress again in 1934. During the communist régime, the activity of Czech philosophers and logicians was subdued. Still, important works in mathematical logic and other fields of study were produced. For example, Petr Vopěnka (1935–2015) developed alternative set theory and worked in the philosophy of geometry, while Petr Hájek (1940–) has been working on the mathematical foundations of fuzzy logic. Since the revolution in 1989, Prague and Czechia have once again become a focal point for research and a busy meeting place of logicians and philosophers of science.

The host of the congress, the Institute of Philosophy of the Czech Academy of Sciences (est. 1990), is a leading Czech research institution within the fields of philosophy and the humanities. It participates in a wide array of international research projects and regularly hosts guest lectures, conferences and workshops, for instance the internationally renowned LOGICA conferences and the Ernst Mach Workshops which present cutting-edge research in contemporary philosophy of science. Moreover, the Institute contains no fewer than three departments that focus particularly on logic, methodology and the philosophy of science.

The sixteenth edition of the congress brings together logicians and philosophers of science from quite literally all over the world. The academic programme of the congress covers all major areas of logic and the philosophy of science and is spread across 20 thematic sections. Some of these sections make their debut here in Prague: the empirical and experimental philosophy of science, educational aspects of the philosophy of science, philosophy of the biomedical and health sciences, the philosophy of

computing and computation, and the philosophy of emerging sciences. The congress will host three plenary lectures, twenty-two invited lectures, forty thematic symposia and hundreds of contributed talks. If that is not enough, you are welcome to stay in Prague for a further week to enjoy dozens and dozens of talks on mathematical logic during the Logic Colloquium, our partner conference, at the same venue.

Enjoy the best of logic and the philosophy of science in the heart of Europe!

Tomáš Marvan

Head of the Local Organising Committee

CLMPST 2019 is organized under the auspices of the Division of Logic, Methodology and Philosophy of Science and Technology of the International Union of History and Philosophy of Science and Technology (DLMPST/IUHPST)

by the Institute of Philosophy of the Czech Academy of Sciences

with the assistance of Auletris and GUARANT International.

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Ondřej Ševeček / IP CAS

Kateřina Trlifajová / Faculty of Information Technology, Czech Technical University in Prague

Martin Zach / Congress Secretary; IP CAS

Markéta Báčová, Martin Haloun, Petra Ševčíková / Auletris

Denisa Valentová / GUARANT International

#### Congress Partners

Czech Academy of Sciences

Faculty of Information Technology, Czech Technical University in Prague

Strategy AV21

Council of Scientific Societies of the Czech Republic

The City of Prague

SkyTeam

#### Book exhibition

Cambridge University Press

MIT Press

Springer Nature

This congress is organized under the patronage of Professor Eva Zažímalová, President of the Czech Academy of Sciences

#### Special thanks

Artem Kuranov

Rudolf Kinc

Dan Zahrádka

Jan Železný

Marcel Jiřina

### Previous Congresses

Starting from 1960 the International Congress on Logic, Methodology and Philosophy of Science has been held every four years in these cities:

1960 Stanford, California, USA  
 1964 Jerusalem, Israel  
 1967 Amsterdam, Netherlands  
 1971 Bucharest, Romania  
 1975 London, Ontario, Canada  
 1979 Hannover, Federal Republic of Germany  
 1983 Salzburg, Austria  
 1987 Moscow, USSR  
 1991 Uppsala, Sweden  
 1995 Florence, Italy  
 1999 Cracow, Poland  
 2003 Oviedo, Spain  
 2007 Beijing, China  
 2011 Nancy, France  
 2015 Helsinki, Finland

The Division changed its name to add the term ‘technology’ in 2015; as a consequence, the congress will include the term ‘technology’ from the Prague congress in 2019 onwards.

### Congress Venue

The congress venue is the Faculty of Architecture, Czech Technical University in Prague (Thákurova 9, 160 00 Prague 6).

### Accessibility

All conference rooms are wheelchair accessible. Wheelchair access to the building is located on the left side of the main entrance. You can park your car in the designated spaces right in front of the building (from Kolejní street turn into Park I. Gándhiové).

### Registration fees

The participant registration fee includes:

- participation in the congress programme and in congress social events (excluding the congress dinner, which is billed separately)
- congress materials
- coffee break refreshments
- city transportation pass

The fee for accompanying persons covers the congress social events only (Welcome Reception and Closing Party).

### Registration and Information

You can pick up your name badge and congress materials at the registration and information desk on the ground floor of the main venue (Thákurova 9). Please wear the name badge visibly throughout the whole congress period.

The registration desk only accepts cash payments. If you want to pay your registration fee or for some other conference services on-site, please bring with you the exact sum in Euros.

**NB:** Please don't forget to bring your dinner ticket to the dinner venue on Friday!

The registration and information desk will be open at the following times:

Monday	11:30–19:30
Tuesday	08:30–17:00
Wednesday	08:30–16:00
Thursday	08:30–16:00
Friday	08:30–18:30
Saturday	08:30–18:00

Registration and information desk phone number: **+420 607 786 670**

### Instructions for Speakers

Duration of talks at CLMPST 2019

- Contributed talks and symposia talks: 30 minutes (including discussion)
- Invited lectures: 60 minutes (including discussion)
- Plenary lectures: 90 minutes (including discussion)

All conference rooms are equipped with PCs and projectors. If you plan to use the conference computer (default option at CLMPST 2019), you can:

- (1) upload your presentation in advance via the CLMPST 2019 website. Visit <http://clmpst2019.flu.cas.cz/presentation-upload/> (preferred option). Please do not upload your presentation later than one day before your presentation in Prague.
- (2) upload your presentation onto the conference computer in your session room from your own USB flash drive during the break before your session starts.

Please note that we can accept only ppt, pptx, and pdf formats.

If you want to use your own computer, please check during the break before the session with the congress assistants that it can successfully connect to the projector. Please note that we cannot guarantee the proper functionality of your devices.

Congress assistants will be present in all session rooms and would be delighted to help.

### Instructions for Chairs

The durations of talks at CLMPST 2019

- Contributed talks and symposia talks: 30 minutes (including discussion)
- Invited lectures: 60 minutes (including discussion)

Rules for chairing contributed and symposia talk sessions:

1. All contributed papers are allotted 30 minutes in total (20-minute presentation + 10-minute discussion). Please note that a few sessions might have vacant slots, but even for these sessions, presentations should follow the 30-minute format. (Presentations based on contributed papers should not exceed the maximum time of 30 minutes under any circumstances.)
2. The order of presentations within sessions should always follow the order published in the official CLMPST 2019 program. The chairs should always check the latest version of the CLMPST 2019 program before their session starts.
3. In the case of on-site cancellations, chairs are asked to provide a 30-minute break in place of the cancelled presentation. It is important that chairs take these breaks so that people who move between sessions do not miss presentations they wish to attend.
4. Should you be chairing a session in which you are also a speaker, please ask one of the other speakers of the session to chair your presentation when it is your turn to present.
5. The assistants will supply water for the speakers and provide technical assistance if needed. If you encounter any problems during the session, please contact them.
6. The speakers will either upload their presentations online in advance, or from their own USB flash drives before the session starts. If the speakers use their own computers, they are asked to check during the breaks that they can successfully connect the computer to the projector.
7. In the event that a chair is not present at the session, please apply a DIY approach and chair the session mutually amongst the presenting speakers.



### Technical Assistance in the Conference Rooms

If you encounter any problems during the sessions, please contact the congress assistants, or the information desk (**+420 607 786 670**).

### Internet

1. If you use Eduroam, connect to the Eduroam network with the username and password of your home institution.
2. **SSID: clmpst2019, password: clmpst2019** is free of charge. Information regarding internet connection at the venue will be available at the registration desk.

### Social Media

The social media hashtag for the congress is **#clmpst2019**. The congress has an active Twitter account – **@clmpst2019**. The Facebook event “**CLMPST 2019**” has been established so that conference participants may organize their own unofficial meetings before, during and after the congress days.

### Printing

The nearest print shop, M&P Copier, is located 900 metres from the main venue (address: Dejvická 29). M&P Copier is open 08.00–18.00 (Monday–Friday), 08.30–12.30 (Saturday).

Please note that the information desk can only print a few pages of materials for you (e.g., boarding passes).

### Certificates of attendance

Certificates of attendance will be available for download in the registration software (ConfTool) after the end of the Congress.

### Lunches

There are many restaurants and cafés serving lunch in the Dejvice district. Here is a selection of places to have lunch close to the congress venue:

#### University canteens

##### Technical Canteen

(Canteen at the Czech Robotics Centre)

<https://www.suz.cvut.cz/en/canteens/the-technicka-menza-canteen>

The website says “out of order” but it’s open.

##### Masarykova kolej

Thákurova 1

(Canteen at the Masaryk halls of residence)

<https://www.suz.cvut.cz/en/canteens/the-masarykova-dormitory>

#### Restaurants with daily menu

##### Restaurant Na Kotlářce

Na Kocínce 3

<https://nakotlarce.cz/?lang=en>

##### Bistro Santinka

Bechyňova 8

<http://www.santinka.cz/kontakt.html>

##### Restaurant & Café BLOX

Evropská 11

[http://www.blox-restaurant.cz/en#!/page\\_intro](http://www.blox-restaurant.cz/en#!/page_intro)

##### Restaurace U Pětníka

Lotyšská 8

<https://www.upetnika.cz/kontakty/>

**Restaurace U Topolů**

Jugoslávských partyzánů 32  
<http://www.utopolu.cz/kontakt>

**Restaurace Pod Loubím**

Evropská 26  
<http://www.podloubim.com/cesta/>

**Kulaťák**

Vítězné náměstí 12  
<http://www.kulatak.cz/en/>

**Pizza****Fresh Point Pizza**

náměstí Svobody 1  
<https://fresh-point.cz/?lang=en>

**Grosseto Pizzeria Ristorante**

Jugoslávských partyzánů 8  
<https://www.grosseto.cz/en/dejvice/gallery>

**Vegetarian and vegan****Vegetka**

Kafkova 16  
 (Vegan restaurant)  
<http://vegan-vegetka.cz/kontakt/>

**Country Life**

Československé armády 30  
 (Vegetarian and vegan bistro)  
<https://www.countrylife.cz/mo-dejvice-restaurace>

**Vietnamese Restaurant Dua**

Studentská 1  
 (Vegetarian options)

**Restaurant U Cedru**

Národní obrany 27  
 (Lebanese restaurant with vegetarian options)  
<http://www.ucedru.cz/en/>

**Mei Xin**

Evropská 24  
 (Chinese restaurant with vegetarian options)

**Coffee and refreshments**

Tea and coffee will be served throughout the congress days. Other coffee options within walking distance of the venue include:

**Café Prostoru**

Technická 6  
 (Café of the National Technical Library, across from the congress venue. They also serve a soup of the day and sandwiches. Warning: the service is a bit slow!)

**Bistro Santinka**

Bechyňova 8  
<http://www.santinka.cz/kontakt.html>

**Café Dejvice Theatre**

Zelená 15a  
<https://kavarnadd.cz/>

**Café Šesták**

Vítězné náměstí 1  
 (Open air)  
<http://cafesestak.cz/>

### ATM

The nearest ATM is located inside the National Library of Technology building, opposite the congress venue. There are also several other ATMs on Vítězné náměstí.

### Shopping

Most department stores and shopping centres are open Monday-Friday 09:00–21:00, on Saturdays 09:00–18:00, and on Sundays 12:00–18:00.

### Tourist information

Visit any of the Prague City Tourism offices; addresses at <https://www.praguecitytourism.cz/en>.

### Police and Medical Assistance

Medical assistance will be available on site throughout the congress. In case of need, call the information desk: **+420 607 786 670**. If you need the police or an ambulance when not at the venue, the emergency number is **112**.

## Arriving in Prague

### By plane

Václav Havel Airport Prague

Public transport options from the airport (<http://www.dpp.cz/en/>):

Bus 119 from the airport to Nádraží Veleslavín metro station, line A (**green line**)

Bus 100 from the airport to Zličín metro station, line B (**yellow line**)

You are required to buy a ticket, either from a ticket machine at the bus stop or at an information desk at the airport. You may find a list of all fares at <http://www.dpp.cz/en/fares-in-prague/>. We recommend purchasing the 32 CZK ticket. Do not forget to validate your ticket: **insert it in the yellow box inside the bus and wait until you hear it being stamped with the time**. This buys you 90 minutes' transport and the ticket remains valid even if you change to the metro or get on a tram.

Taxi companies operating from the airport are available at <https://www.prg.aero/en/taxi>.

Uber also operates in Prague.

### By train

Public transport from Prague main railway station (<http://www.dpp.cz/en/>):

Hlavní nádraží metro station, line C (**red line**)

### Transportation in Prague

Upon registration all participants will receive a travel pass which will allow them to use public transport (metro, trams, buses) for free for the whole duration of the congress. Timetables and routes: <http://www.dpp.cz/en/>.

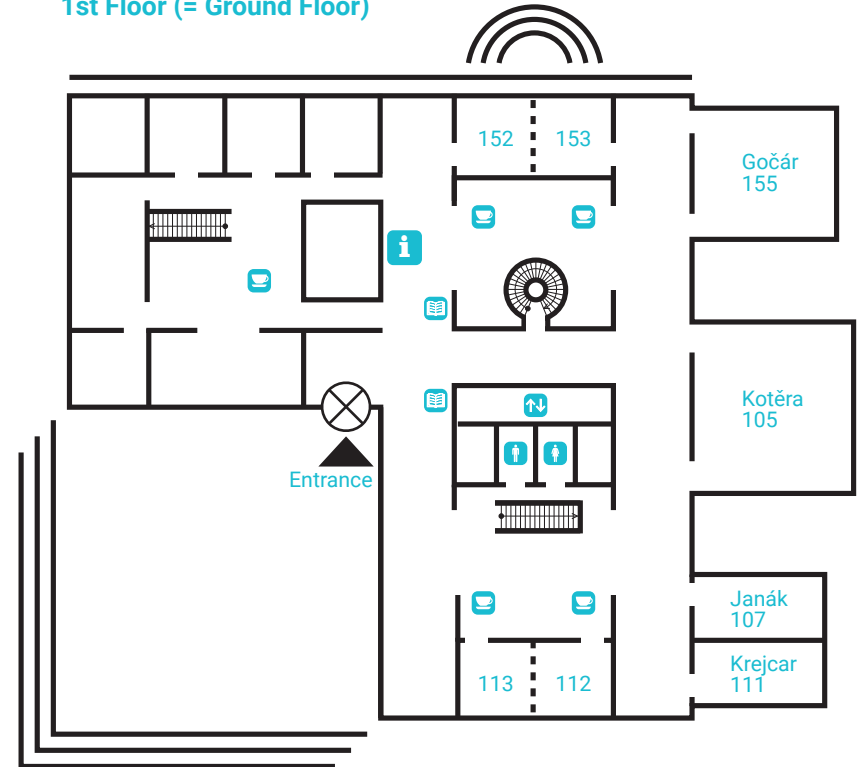
### Weather






The average daytime temperature is around 25°C in Prague in early August. There might be occasional showers, and at night the temperature might drop to 15 °C.



Faculty of Architecture  
CTU in Prague

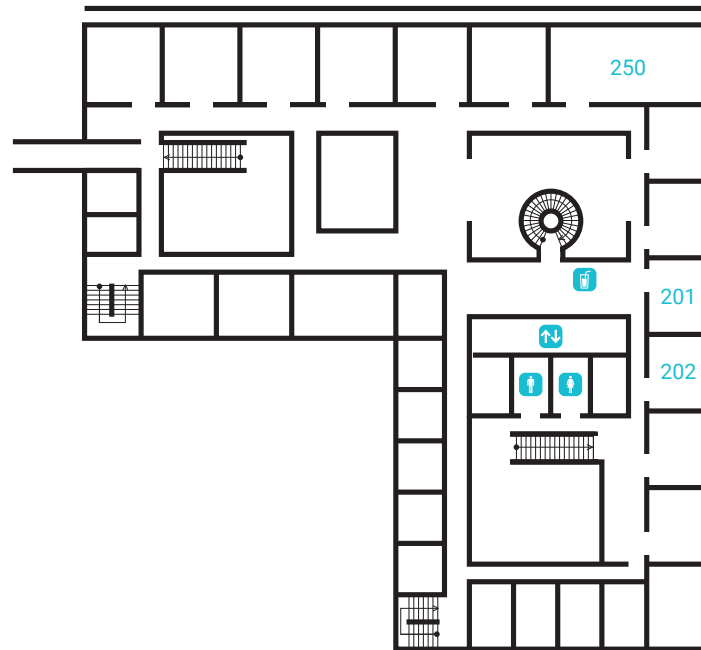
1st Floor (= Ground Floor)






-  Registration desk
-  Book exhibit
-  Coffee break
-  Elevators
-  Toilets

Faculty of Architecture  
CTU in Prague

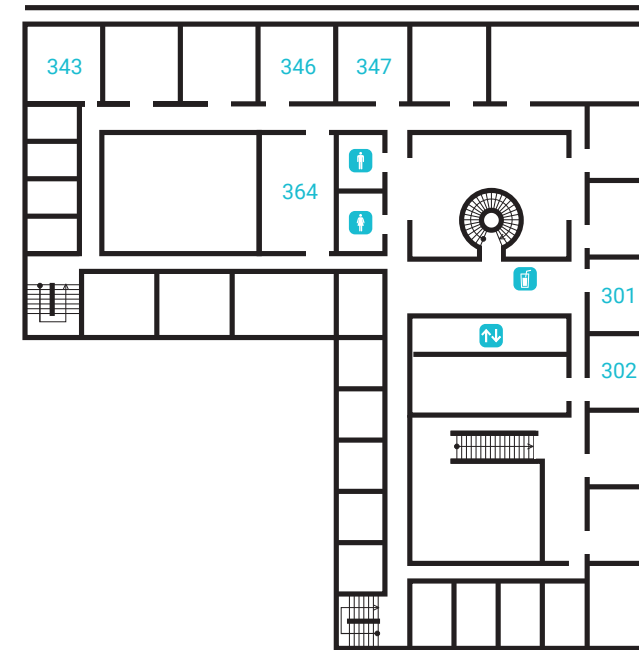
2nd Floor






-  Cold drinks
-  Elevators
-  Toilets

Faculty of Architecture  
CTU in Prague

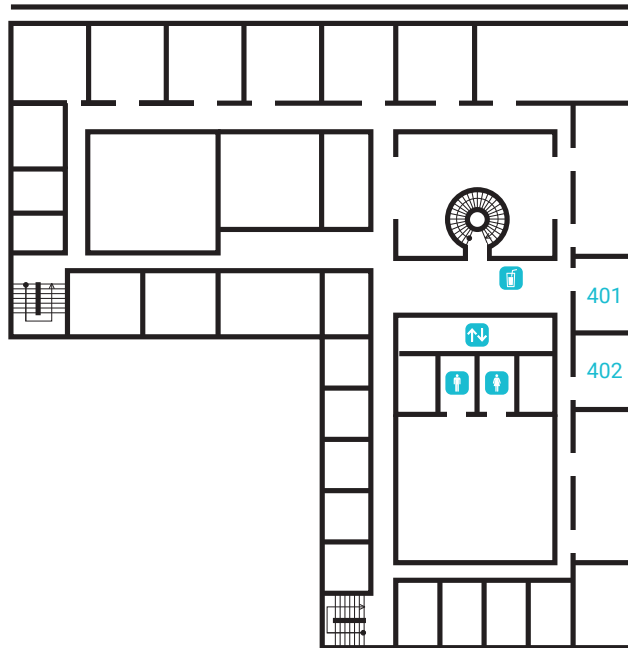
3rd Floor






-  Cold drinks
-  Elevators
-  Toilets

**Faculty of Architecture  
CTU in Prague**

**4th Floor**



-  Cold drinks
-  Elevators
-  Toilets

**Congress social events**

**Opening ceremony and the first Plenary lecture**

Date and time: **5 August 2019, 9:15–12:15**

Place: Hybernia Theatre, Náměstí Republiky 4, 110 00 Prague 1

The opening ceremony, including the first plenary lecture delivered by Professor Sandra Mitchell, will be held in Hybernia Theatre in the historical centre of Prague.

**Welcome reception**

Date and time: **5 August 2019, 19:00–21:00**

Place: Faculty of Civil Engineering, Czech Technical University in Prague, Thákurova 2077/7, 166 29 Prague 6

The welcome reception will be held in the building neighbouring the congress venue; all participants and accompanying persons are welcome.

**Congress dinner**

Date and time: **9 August 2019, 19:30–21:30**

Place: Plzeňská restaurant – Municipal House (Obecní dům), náměstí Republiky 5, 110 00 Prague 1

**Price: 35 EUR**

The congress dinner will be served at the Plzeňská restaurant located in the basement of the Municipal House in the historical centre of Prague. The art nouveau Plzeňská restaurant is a place which mingles traditional Czech cuisine with a unique early twentieth century interior. It opened in 1912, having been decorated by the best Czech painters and artists of the day.

The price includes a three courses menu and accompanying wine, beer and soft drinks.

**Closing party**

Date and time: **10 August 2019, 20:00–23:00**

Place: Institute of Philosophy of the Czech Academy of Sciences, Jilská 361/1,  
110 00 Prague 1

Beer, food, fun.

**Public plenary lecture (joint event with Logic Colloquium 2019)**

What if meaning is indeterminate? Ramsification and semantic indeterminacy

Hannes Leitgeb (Ludwig Maximilian University, Munich)

Date and time: **11 August 2019, 18:00–19:00**

Place: Faculty of Architecture, Czech Technical University in Prague, room Kotěra

A light refreshment and welcome drink will be served one hour before the lecture.

Free entry, no registration is needed.

**Logic Colloquium**

The Logic Colloquium (the European Summer Meeting of the Association for Symbolic Logic) will be held in Prague in 2019 in the same conference venue. Their dates: August 11–16, 2019. Visit their website: <https://www.lc2019.cz/>

**Congress Sections**

- A** Logic
- A1** Mathematical Logic
- A2** Philosophical Logic
- A3** Computational Logic and Applications of Logic
- A4** Historical Aspects of Logic
  
- B** General Philosophy of Science
- B1** Methodology
- B2** Formal Philosophy of Science and Formal Epistemology
- B3** Empirical and Experimental Philosophy of Science
- B4** Metaphysical Issues in the Philosophy of Science
- B5** Ethical and Political Issues in the Philosophy of Science
- B6** Historical Aspects of the Philosophy of Science
- B7** Educational Aspects of the Philosophy of Science
  
- C** Philosophical Issues of Particular Disciplines
- C1** Philosophy of the Formal Sciences (including Logic, Mathematics, Statistics)
- C2** Philosophy of the Physical Sciences (including Physics, Chemistry, Earth Science, Climate Science)
- C3** Philosophy of the Life Sciences
- C4** Philosophy of the Biomedical and Health Sciences
- C5** Philosophy of the Cognitive and Behavioral Sciences
- C6** Philosophy of Computing and Computation
- C7** Philosophy of the Humanities and the Social Sciences
- C8** Philosophy of the Applied Sciences and Technology
- C9** Philosophy of Emerging Sciences

## Plenary Speakers

Heather Douglas / Michigan State University, East Lansing, United States

Joel D. Hamkins / University of Oxford, United Kingdom

Sandra D. Mitchell / University of Pittsburgh, United States

## Invited Speakers

Anna Alexandrova / University of Cambridge, United Kingdom

Atocha Aliseda Llera / UNAM, Mexico City, Mexico

Christina Brech / University of São Paulo, Brazil

Alex Broadbent / University of Johannesburg, South Africa

Anna Brożek / University of Warsaw, Poland

Julia Bursten / University of Kentucky, Lexington, United States

Franz Dietrich / Paris School of Economics, CNRS, France

Valentin Goranko / Stockholm University, Sweden

Hans Halvorson / Princeton University, United States

Gerhard Heinzmann / Université de Lorraine, Nancy, France

Gürol Irzık / Sabancı University, Istanbul, Turkey

Tarja Knuuttila / University of Vienna, Austria

Jan Krajíček / Charles University, Prague, Czechia

Sabina Leonelli / University of Exeter, United Kingdom

Maryanthe Malliaris / University of Chicago, United States

Michael Matthews / University of New South Wales, Sydney, Australia

Jonathan Okeke Chimakonam / University of Calabar, Nigeria

Jacqueline Anne Sullivan / University of Western Ontario, London, Canada

Dunja Šešelja / Munich Centre for Mathematical Philosophy, Germany

Ray Turner / University of Essex, United Kingdom

Heinrich Wansing / Ruhr-Universität Bochum, Germany

## Symposia

### DLMPST Commissions' Symposia

**What is the value of history of science for philosophy of science?**

**Joint Commission of the IUHPST (JC1)**

**Tuesday, 6 August**

*Organizer: Hasok Chang*

**Can the history of science be used to test philosophy?**

**Symposium of the Joint Commission of the IUHPST (JC2)**

**Tuesday, 6 August**

*Organizer: Hasok Chang*

**Messy science.**

**Symposium of the Joint Commission of the IUHPST 3 (JC3)**

**Monday, 5 August**

*Organizer: Hasok Chang*

**The history and ontology of chemistry.**

**Symposium of the Joint Commission of the IUHPST 4 (JC4)**

**Tuesday, 6 August**

*Organizer: Hasok Chang*

**Identity in computational formal and applied systems.**

**Symposium of the Commission for the History and Philosophy of Computing of the DLMPST (IdCFAS)**

**Saturday, 10 August**

*Organizers: Giuseppe Primiero and Nicola Angius*



Philosophy of Big Data.  
Symposium of the DLMPST Commission for the History and Philosophy of Computing (Big Data)

Friday, 9 August

Organizer: Paula Quinon

Communication and exchanges among scientific cultures.  
Symposium of the IUHPST Commission International Association for Science and Cultural Diversity (CESC)

Saturday, 10 August

Organizers: Nina Atanasova, Karine Chemla, Vitaly Pronskikh and Peeter Mürsepp

Climate change: History and philosophy of science and nature of science challenges.  
Symposium of the Inter-Divisional Teaching Commission of the IUHPST

Tuesday, 6 August

Organizer: Paulo Maurício

Symposium of the DLMPST Commission on Arabic logic

Tuesday, 6 August

Organizer: Wilfrid Hodges

Academic means-end knowledge in engineering, medicine and other practical sciences.  
Symposium of the DLMPST Commission on the Philosophy of Technology and Engineering Sciences (AMEK)

Tuesday, 6 August

Organizer: Sjoerd Zwart

Denial of facts: Instrumentation of science, criticism, and fake news.  
Symposium organized with the International Science Council (ISC)

Tuesday, 6 August

Organizers: Benedikt Löwe and Daya Reddy

The gender gap in the sciences and philosophy of science.  
Symposium organized by DLMPST/IUHPST and the Gender Gap project

Monday, 5 August

Organizers: Benedikt Löwe and Helena Mihaljevic

Adolf Grünbaum memorial symposium (Grünbaum)

Monday, 5 August

Organizer: Sandra Mitchell

## Panels

ERC panel

Friday, 9 August

Organizer: Hanne Andersen

Teaching panel

Saturday, 10 August

Organizer: Joeri Witteveen

Journal panel

Saturday, 10 August

Organizer: Hanne Andersen

## Contributed Symposia

**Approaching probabilistic truths, in comparison with approaching deterministic truths (APT)**

[Tuesday, 6 August](#)

*Organizers: Theo Kuipers and Ilkka Niiniluoto*

**Association for the Philosophy of Mathematical Practice symposium (APMP)**

[Tuesday, 6 August](#)

*Organizers: Silvia De Toffoli and Andrew Arana*

**Bolzano's mathematics and the general methodology of the sciences (BMMS)**

[Thursday, 8 August](#)

*Organizer: Steve Russ*

**Commitments of foundational theories (CFT)**

[Friday, 9 August](#)

*Organizer: Mateusz Łełyk*

**Epistemic and ethical innovations in biomedical sciences (EAIBS)**

[Saturday, 10 August](#)

*Organizer: David Casacuberta*

**Factivity of understanding: Moving beyond the current debates. Symposium of the East European Network for the Philosophy of Science (EENPS)**

[Wednesday, 7 August](#)

*Organizer: Lilia Gurova*

**Formalism, formalization, intuition and understanding in mathematics: From informal practice to formal systems and back again (FFIUM)**

[Saturday, 10 August](#)

*Organizer: Mate Szabo*

**From contradiction to defectiveness to pluralism (FCDP)**

[Friday, 9 August](#)

*Organizers: María Del Rosario Martínez Ordaz and Otávio Bueno*

**International year of the periodic table (IYPT)**

[Friday, 9 August](#)

*Organizers: Gisela Boeck and Benedikt Löwe*

**Karl Popper: His science and his philosophy (KRP)**

[Wednesday, 7 August](#)

*Organizer: Zuzana Parusniková*

**Logic, agency, and rationality (LoARa)**

[Wednesday, 7 August](#)

*Organizers: Valentin Goranko and Frederik Van De Putte*

**Mario Bunge: Appraising his long-life's contribution to philosophy (MBA)**

[Tuesday, 6 August](#)

*Organizer: Michael Matthews*

**New directions in connexive logic (NDCXL)**

[Friday, 9 August](#)

*Organizers: Hitoshi Omori and Heinrich Wansing*

**Observation to Causation (O2C)****Monday, 5 August***Organizer: Frederick Eberhardt***Particles, fields, or both? (PFB)****Thursday, 8 August***Organizer: Charles Sebens***Proof and translation: Glivenko's theorem 90 years after (Glivenko)****Friday, 9 August***Organizers: Sara Negri and Peter Schuster***Science as a profession and vocation. On STS's interdisciplinary crossroads (WEBPROVOC)****Saturday, 10 August***Organizers: Ilya Kasavin, Alexandre Antonovskiy, Liana Tukhvatulina, Anton Dolmatov, Eugenia Samostienko, Svetlana Shibarshina, Elena Chebotareva and Lada Shipovalova***Some recent directions in model theory (clmpsmod)****Thursday, 8 August***Organizer: John Baldwin***Styles in mathematics (SIM)****Thursday, 8 August***Organizers: Erich Reck and Georg Schiemer***Substructural epistemology (SubStrE)****Saturday, 10 August***Organizers: Dominik Klein, Soroush Rafiee Rad and Ondrej Majer***Symposium on John Baldwin's model theory and the philosophy of mathematical practice (Baldwin)****Saturday, 10 August***Organizer: John Baldwin***Symposium on the philosophy of the historical sciences (PHS)****Tuesday, 6 August***Organizer: Aviezer Tucker***Symposium of the Spanish Society of Logic, Methodology and Philosophy of Science (SLMFCE)****Wednesday, 7 August***Organizer: Cristina Corredor***Symposium on higher Baire spaces (SGBS)****Friday, 9 August***Organizers: Lorenzo Galeotti and Philipp Lücke***Text-driven approaches to the philosophy of mathematics (TDPhiMa)****Wednesday, 7 August***Organizers: Carolin Antos, Deborah Kant and Deniz Sarikaya***Theories and formalization. Symposium of the Italian Society for Logic and Philosophy of Science (SILFS)****Thursday, 8 August***Organizers: Giovanni Valente and Roberto Giuntini***Toward the reconstruction of linkage between Bayesian philosophy and statistics (TRLBPS)****Saturday, 10 August***Organizer: Masahiro Matsuo*

**What method for conceptual engineering? (MEt4CE)**

Thursday, 8 August

Organizer: *Manuel Gustavo Isaac*

X	V	I
C	L	M
P	S	T



09:00  
09:30  
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19:00  
21:00

9:15–10:45 Opening ceremony

10:45–12:15 Plenary 1 Sandra Mitchell

12:30 Registration

Session 3A B1 SYMP Messy science 1 (JC3-1)	Session 3B B1 SYMP Observ to Causation 1 (O2C-1)	Session 3C B6 SYMP Adolf Grünbaum 1 (Grünbaum-1)	Session 3D B5 SYMP The gender gap in the sciences	Session 3E IS B2 Dietrich	Session 3F C1/C5 Studies on mathematical practice 1		Session 3G B3 Empirical and experimental philosophy	Session 3H B4 Metaphysical issues: Naturalism	Session 3I B1 Evidence and testing 1	Session 3J C1 Philosophy of the formal sciences	Session 3K A4 History and development of modern logic 1	Session 3L A2 Philosophical logic	Session 3M B3: Thought experiments
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16:15–16:45 Coffee break

Session 4A B1 SYMP Messy science 2 (JC3-2)	Session 4B B1 SYMP O2C-2	Session 4C B6 SYMP Grünbaum-2		Session 4E IS C1 Heinzmann	Session 4F C1/C5 Studies on mathematical practice 2		Session 4G B5 Science and values	Session 4H B4 Metaphysical issues: Patterns	Session 4I B1 Evidence and testing 2	Session 4J C2 Thermodynamics and statistical physics	Session 4K A4 History and development of modern logic 2	Session 4L B1 Methodology	Session 4M A2 Logic and ontology
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19:00–21:00 Welcome reception

**Hybernia Theatre**

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9:15  
Opening ceremony

10:45  
**Plenary 1**

*Chair: Hanne Andersen  
Sandra Mitchell*

Integrating perspectives: Learning from model divergence

**Faculty of Architecture  
(Congress venue)**

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12:30  
**Registration**

**Room 152+153**

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**Session 3A**  
B1 SYMP Messy science 1. Symposium of the Joint Commission of the IUHPST 3 (JC3-1)

*Chair: Catherine Kendig*

15:15  
*Jutta Schickore*  
Scientists' reflections on messy science  
B1

15:45  
*Jordi Cat*  
Blur science through blurred images. What the diversity of fuzzy pictures can do for epistemic, methodological and clinical goals  
B1

**Room 347**

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**Session 3B**  
B1 SYMP Observation to causation 1 (O2C-1)

*Chair: Christopher Hitchcock*

15:15  
*Hanti Lin*  
Convergence to the causal truth and our death in the long run  
B1

15:45  
*Jiji Zhang and Kun Zhang*  
Causal minimality in the Boolean approach to causal inference  
B1

**Room 250**

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**Session 3C**  
B6 SYMP Adolf Grünbaum memorial symposium 1 (Grünbaum-1)

*Chair: Sandra Mitchell*

15:15  
*Clark Glymour*  
Adolf and natural religion  
B6

15:45  
*Brian Skyrms*  
Adolf Grünbaum on "Zeno's Metrical Paradox of Extension"  
B6



**Room Janák****Session 3D**

**B5 SYMP The gender gap in the sciences and philosophy of science.**  
Symposium organised by the DLMPST/  
IUHPST and the Gender Gap Project

*Chair: Helena Mihaljevic*

15:15

*Helen Longino*

How science loses by failing to address the gender (and other) gaps

B1, B5

15:45

*Helena Mihaljevic*

What can publication records tell about the gender gap in STEM?

B1, B5

**Room Krejcar****Session 3E**

**B2 Invited speaker**

*Chair: Joan Bertran-San Millán*

15:15

*Franz Dietrich*

Beyond belief: Logic in multiple attitudes (joint work with A. Staras and R. Sugden)

**Room 112+113****Session 3F**

**C1/C5 Studies on mathematical practice and cognition 1**

*Chair: Bernd Buldt*

15:15

*Mario Santos-Sousa*

Grounding numerals

C5

15:45

*Oscar Perez*

Paths of abstraction: between ontology and epistemology in mathematical practice. The Zilber's trichotomy through the lens of Lautman and Cavaillès

C1

**Room 201****Session 3G**

**B3 Empirical and experimental philosophy of science**

*Chair: Dragana Bozin*

15:15

*Vladimir Vinokurov and Marina*

*Vorontsova*

Geometry, psychology, myth as aspects of the astrological paradigm

B3

**Room 202****Session 3H**

**B4 Metaphysical issues: Naturalism**

*Chair: Amita Chatterjee*

15:15

*Vera Matarese*

Super-Humeanism: A naturalized metaphysical theory?

B4

15:45

*Igor Nevvazhay*

Transcendental in physical theory

B4

**Room 301****Session 3I**

**B1 Evidence and testing 1**

*Chair: Ave Mets*

15:15

*Linton Wang, Ming-Yuan Hsiao and Jhih-Hao Jhang*

Unfalsifiability and defeasibility

B1, B2

15:45

*Klodian Coko*

Robustness, invariance, and multiple determination

B1, B6

**Room 343****Session 3J**

**C1 Philosophy of the formal sciences**

*Chair: Pavel Arazim*

15:15

*Henning Heller*

Structuralist abstraction and group-theoretic practice

B6, C1

15:45

*David Rey and Pablo Cubides*

Expressive power and intensional operators

A2, C1

**Room 346****Session 3K**

**A4 History and development of modern logic 1**

*Chair: Zuzana Rybařiková*

15:15

*Gabriela Besler*

Transcriptions of Gottlob Frege's logical formulas into Boole's algebra and language of modern logic. Similarities and differences

A4

15:45

*Priyedarshi Jetli*

Hilbert and the quantum leap from modern logic to mathematical logic

A4

**Room 364****Session 3L**

**A2 Philosophical logic**

*Chair: Joachim Hertel*

15:15

*Hsing-Chien Tsai*

Classifying first-order mereological structures

A2

15:45

*Antonio Piccolomini d'Aragona*

A class of languages for Prawitz's epistemic grounding

A1, A2, A4

15:15–16:15

16:45–18:15

16:45–18:15

**Room 302****Session 3M****B3 Thought experiments***Chair: Janet Folina*

15:15

*Irina Starikova*

"Thought experiments" in mathematics?

B3

**16:15–16:45 Coffee break****Room 152+153****Session 4A****B1 SYMP Messy science 2. Symposium of the Joint Commission of the IUHPST (JC3-2)***Chair: Catherine Kendig*

16:45

*Catherine Kendig*

Messy metaphysics: the individuation of parts in lichenology

B1

17:15

*Bettina Dietz*

Tinkering with nomenclature. Textual engineering, co-authorship, and collaborative publishing in eighteenth-century botany

B1

**Room 347****Session 4B****B1 SYMP Observation to causation 2 (O2C-2)***Chair: Christopher Hitchcock*

16:45

*Konstantin Genin and Kevin Kelly*

Progressive methods for causal discovery

B1, B2

17:15

*Frederick Eberhardt*

Proportional causes and specific effects

B1

17:45

*Benjamin Jantzen*

Finding causation in time: background assumptions for dynamical systems

B1

**Room 250****Session 4C****B6 SYMP Adolf Grünbaum memorial symposium 2 (Grünbaum-2)***Chair: Sandra Mitchell*

16:45

*Dominic Murphy*

What is a placebo?

B6

17:15

*Ken Gemes*

Adolf Grünbaum on Freud

B6

**Room Krejcar****Session 4E****C1 Invited speaker***Chair: Valeria Giardino*

16:45

*Gerhard Heinzmann*

Mathematical understanding by thought experiments

**Room 112+113****Session 4F****C1/C5 Studies on mathematical practice and cognition 2***Chair: Silvia De Toffoli*

16:45

*Paul Hasselkuß*

Computers and the King's new clothes. Remarks on two objections against computer assisted proofs in mathematics

C1

17:15

*Andrei Rodin*

Formal proof-verification and mathematical intuition: The case of univalent foundations

C1

**Room 201****Session 4G****B5 Science and values***Chair: Sina Badiei*

16:45

*Hiroyuki Kano*

Updating scientific adviser models from policy-maker perspectives: a limit of debate of 'science and value' and norms of public policy

B5

17:15

*Alexander Linsbichler*

In defense of a thought-stopper: Relativizing the fact/value dichotomy

B1, B4, B5, B6

17:45

*Eveli Neemre*

Values in science and value conflicts

B5

**Room Janák****Session 4H****B4 Metaphysical issues: Patterns, processes and mechanisms***Chair: Vera Matarese*

16:45

*Paul Teller*

Processes and mechanisms

B4

17:15

*Nikita Golovko*

Second pattern existence and truth-making

B4

**Room 301****Session 4I****B1 Evidence and testing 2***Chair: Ave Mets*

16:45

*Abhishek Kashyap*

Underdetermination of theories, theories of gravity, and the gravity of underdetermination

B1, B2, B6, C2

17:15

*Pekka Syrjänen*

Some problems in the prediction vs accommodation debate

B1

**Room 343****Session 4J****C2 Thermodynamics and statistical physics***Chair: Marco Corgini*

16:45

*Márton Gömöri*

Why do outcomes in a long series of rolling a fair dice approximately follow the uniform distribution?

C2

17:15

*Marco Corgini*

Anomalous averages, Bose–Einstein condensation and spontaneous symmetry breaking of continuous symmetries, revisited

C2

**Room 346****Session 4K****A4 History and development of modern logic 2***Chair: Priyedarshi Jetli*

16:45

*Joan Bertran-San Millán*

Frege and Peano on axiomatisation and formalisation

A4

17:15

*Başak Aray*

Sources of Peano's Linguistics

A4

17:45

*Zuzana Haniková*

On Vopěnka's ultrafinitism

A4

**Room 302****Session 4L****B1 Methodology***Chair: Emma Ruttkamp-Bloem*

16:45

*Adam Grobler*

How science is knowledge

B1

17:15

*Vladimir Kuznetsov and Alexander Gabovich*

Commutative transformations of theory structures

B1

**Room 364****Session 4M****A2 Logic and ontology***Chair: Olha Simoroz*

16:45

*Don Faust*

Predication elaboration: Providing further explication of the concept of negation

A2

17:15

*Constantin C. Brîncuş*

Open-ended quantification and categoricity

A2

17:45

*İskender Taşdelen*

Free logic and unique existence proofs

A2, C1

**Faculty of Civil Engineering**

19:00

**Welcome reception**



Tue, 6th

Tuesday, 6th August

Tue, 6th

09:00	Session 5A B1 SYMP Hist / ontol of chemistry 1 (JC4-1)	Session 5B B5 SYMP Denial of facts 1 (ISC-1)	Session 5C C1 SYMP Association for the Philosophy of Mathematical Practice Symposi- um 1 (APMP-1)	Session 5D B2 SYMP Approaching prob- abilistic truths 1 (APT-1)	Session 5E C7 Technology	Session 5F C5 Philosophy of the cognitive and behavioral sciences		Session 5G B6 Popper, Laka- tos, Feyerabend 1	Session 5H B3 Empirical and experimental philosophy of science 1	Session 5I B1 Evidence 1	Session 5J B6 Pluralism and the unity of science	Session 5K A4 History and development of modern logic 3	Session 5L A2 Logics of knowledge and beliefs 1	Session 5M A4 SYMP Arabic logic
09:30														
10:00	10:30–11:00 Coffee break													
10:30	10:30–11:00 Coffee break													
11:00	Session 6A B1 SYMP JC4-2	Session 6B B5 SYMP Denial of facts 2 (ISC-2)	Session 6C C1 SYMP Association for the Philosophy of Mathematical Practice Symposi- um 2 (APMP-2)	Session 6D B2 SYMP Approaching prob- abilistic truths 2 (APT-2)	Session 6E IS A3 Krajiček	Session 6F C7 Philosophy of social science		Session 6G B6 Popper, Laka- tos, Feyerabend 2	Session 6H B3 Empirical and experimental philosophy of science 2	Session 6I B1 Evidence 2	Session 6J B1 Pluralism and relativism	Session 6K A4 Hdml 4	Session 6L A2 Logics of knowledge and beliefs 2	Session 6M A2 Logical analysis of paradoxes 1
11:30														
12:00	12:30–14:00 Lunch break													
12:30	12:30–14:00 Lunch break													
14:00	Session 7A B1 SYMP Can the history of science 1 (JC2-1)	Session 7B C2 SYMP Climate change 1 (IDTC-1)	Session 7C C1 SYMP APMP-3	Session 7D B4 Metaphysical issues in philoso- phy of science	Session 7E IS A4 Brožek	Session 7F B4 Dispositions		Session 7G B5 Politics, science and society 1	Session 7H B6 Historical aspects of philo- sophy of science	Session 7I C4 Explanation in the biomedical and health sci	Session 7J B1 Pluralism and division of labor	Session 7K C7 Social onto- logy 1	Session 7L C2 Philosophy of chemistry	Session 7M A2 Logical analy- sis of paradoxes 2
14:30														
15:00	Session 8A B1 SYMP Can the history of science 2 (JC2-2)	Session 8B C2 SYMP Climate change 2 (IDTC-2)	Session 8C C1 SYMP APMP-4	Session 8D C8 SYMP Means- end know 1 (AMEK-1)	Session 8E IS B3 Šešelja	Session 8F C5 Interdisciplina- rity in the cogni- tive sciences		Session 8G B5 Politics, science and society 2	Session 8H C7 Soc ontol 2	Session 8I C4 Ethical issues in genomic tech- nologies	Session 8J B1 Pluralism and metaph aspects of science 1	Session 8K B3 C. Sci know	Session 8L A2 Normative reasoning 1	Session 8M A2 Logical analy- sis of paradoxes 3
15:30														
16:00	16:15–16:45 Coffee break													
16:30	16:15–16:45 Coffee break													
17:00			Session 9C C1 SYMP APMP-5	Session 9D C8 SYMP AMEK-2	Session 9E IS B6 Irzik	Session 9F B7 SYMP Mario Bunge 1 (MBA-1)		Session 9G B2 Multi-agents and teams	Session 9H B4 Computation	Session 9I C4 Understanding psychotherapy	Session 9J B1 Pluralism and metaph aspects of science 2	Session 9K B1 Discovery	Session 9L A2 Normative reasoning 2	Session 9M A2 Logical analy- sis of paradoxes 4
17:30														
18:00	Session 10A B1 What is the value of history of science for philo- sophy of science? (JC1)	Session 10B B2 Pluralism and philosophy of the formal sciences	Session 10C B1 Experiments		Session 10E IS C6 Turner	Session 10F B7 SYMP Mario Bunge 2 (MBA-2)		Session 10G B4 Democracy and the structure of science	Session 10H B4 Metaphysical aspects: Sellars and Quine	Session 10I C1 Deduction	Session 10J C2 Relativity: Ontology	Session 10K B4 Metaphysical issues in philoso- phy of science	Session 10L A2 Normative reasoning 3	Session 10M A2 Logical analy- sis of paradoxes 5
18:30														
19:00														
19:30														

Tue, 6th

**Room 152+153****Session 5A**

**B1 SYMP The history and ontology of chemistry 1. Symposium of the Joint Commission of the IUHPST 4 (JC4-1)**

*Chair: Hasok Chang*

09:00

*Robin Hendry*

The history of science and the metaphysics of chemistry

B1

09:30

*Marina Paola Banchetti-Robino*

Early modern chemical ontologies and the shift from vitalism to mechanicism

B1

**Room Janák****Session 5B**

**B5 SYMP Denial of facts: Instrumentation of science, criticism, and fake news 1. Symposium organized by DLMPST/IUHPST and the International Science Council (ISC-1)**

*Chair: Benedikt Löwe*

09:00

*Daya Reddy*

Fake news, pseudoscience, and public engagement

B1, B5

09:30

*Axel Gelfert*

Unwitting complicity: When science communication breeds science denialism

B1, B5

10:00

*Sven Ove Hansson*

The philosophical roots of science denialism

B1, B5

**Room 112+113****Session 5C**

**C1 SYMP Association for the Philosophy of Mathematical Practice Symposium 1 (APMP-1)**

*Chair: Dirk Schlimm*

09:00

*Michael Friedman*

Heterogeneous mathematical practices: Complementing or translation?

C1

09:30

*Bernd Buldt*

Abstraction by parametrization and emdedding. A contribution to concept formation in modern and contemporary mathematics

C1

10:00

*Andrew Aberdein*

Virtues, arguments, and mathematical practice

C1

**Room 347****Session 5D****B2 SYMP Approaching probabilistic truths, in comparison with approaching deterministic truths 1 (APT-1)***Chair: Theo Kuipers*

09:00

*Ilkka Niiniluoto*Approaching probabilistic laws  
B2

09:30

*Gustavo Cevolani and Roberto Festa*Approaching deterministic and probabilistic truth: a unified account  
B2

10:00

*Gerhard Schurz*Approaching objective probabilities by meta-inductive probability aggregation  
B2**Room 401****Session 5E****C7 Technology***Chair: Ave Mets*

09:00

*Sabine Thuermel*Smart systems: The power of technology  
C8

09:30

*Augustė Dementavičienė*

Challenges of new technologies:

The case of digital vigilantism

C7, C8

**Room 202****Session 5F****C5 Philosophy of the cognitive and behavioral sciences***Chair: Filip Tvrđý*

09:00

*Juraj Hvorecký*Disputing unconscious phenomenality  
C5

09:30

*Tomasz Schubart*Neuroscience: science without disguise. A critique of Manzotti's and Moderato's dualistic account of neuroscience  
C5

10:00

*Olivier Ouzilou*Social sciences and moral biases  
C7**Room 302****Session 5G****B6 Popper, Lakatos, Feyerabend 1***Chair: Lei Ma*

09:00

*Gabor Kutrovatz*What mature Lakatos learnt from young Lakatos  
B6

09:30

*Nathan Oseroff*Don't be a demarc-hater: correcting popular misconceptions surrounding popper's solution to the demarcation problem  
B6

10:00

*Sina Badiei*Karl Popper's three interpretations of the epistemological peculiarities of the social sciences  
B1, B6, C7**Room 201****Session 5H****B3 Empirical and experimental philosophy of science 1***Chair: Dragana Bozin*

09:00

*Jitka Paitlová and Petr Jedlička*Objectivity of science from the perspective of x-phi  
B3

09:30

*Natalia Reva*Does analogical reasoning imply anthropomorphism?  
B3, C5

10:00

*Konrad Rudnicki and Piotr Łukowski*Empirical investigation of the Liar Paradox. Human brain perceives the Liar sentence to be false  
A2, B3, C5**Room 301****Session 5I****B1 Evidence 1***Chair: Klodian Coko*

09:00

*Menashe Schwed*Truth lies: Taking yet another look at the theory-laden problem  
B1, B3, B4

09:30

*Nora Boyd*Constraining the unknown  
B1, B7, C2, C9

10:00

*Aki Lehtinen and Jani Raerinne*Simulated data  
B1**Room 343****Session 5J****B6 Pluralism and the unity of science***Chair: David Stump*

09:00

*Dan Gabriel Simbotin*The unity of science: From epistemic inertia to internal need  
B6

09:30

*James Finley*Medieval debates over the infinite as motivation for pluralism  
A4, B6, C1



09:00–10:30

10:00  
*K. Brad Wray*  
Setting limits to Chang's pluralism  
B1, B6

**Room 346**

**Session 5K**  
**A4 History and development of modern logic 3**

*Chair: Gabriela Besler*

09:00  
*Víctor Aranda Utrero*  
The universalism of logic and the theory of types  
A4

09:30  
*Kati Kish Bar-On*  
Towards a new philosophical perspective on Hermann Weyl's turn to intuitionism  
A4

10:00  
*Jean-Yves Beziau*  
Tarski's two notions of consequence  
A4

**Room 364**

**Session 5L**  
**A2 Logics of knowledge and beliefs 1**

*Chair: Yaroslav Shramko*

09:00  
*Haocheng Fu*  
Iterated belief revision and DP postulates  
A2

09:30  
*Nadiia Kozachenko*  
Critical thinking and doxastic commitments  
A2

10:00  
*Margarita Vázquez and Manuel Liz*  
Reasoning about perspectives. New advances  
A2, B1

**Room 250**

**Session 5M**  
**A4 SYMP Symposium of the DLMPST commission on Arabic logic**

*Chair: Saloua Chatti*

09:00  
*Saloua Chatti*  
An introduction to Arabic hypothetical logic  
A4

09:30  
*Wilfrid Hodges*  
Abū al-Barakāt and his 12th century logic diagrams  
A4

10:30–11:00 **Coffee break**

11:00–12:30

**Room 152+153**

**Session 6A**  
**B1 SYMP The history and ontology of chemistry 2. Symposium of the Joint Commission of the IUHPST 4 (JC4-2)**

*Chair: Hasok Chang*

11:00  
*Karoliina Pulkkinen*  
Some sixty or more primordial matters: Chemical ontology and the periodicity of the chemical elements  
B1

11:30  
*Sarah Hijmans*  
The building blocks of matter: The chemical element in 18th and 19th-century views of composition  
B1

**Room Janák**

**Session 6B**  
**B5 SYMP Denial of facts: Instrumentation of science, criticism, and fake news 2. Symposium organized by DLMPST/IUHPST and the International Science Council (ISC-2)**

*Chair: Benedikt Löwe*

11:00  
*Romy Jaster and David Lanius*  
Truth and truthfulness, Part I: What fake news is and what it's not  
B1, B5

11:30  
*Romy Jaster and David Lanius*  
Truth and truthfulness, Part II: Why they matter  
B1, B5

**Room 112+113**

**Session 6C**  
**C1 SYMP Association for the Philosophy of Mathematical Practice Symposium 2 (APMP-2)**

*Chair: Dirk Schlimm*

11:00  
*Brendan Larvor and Gila Hanna*  
As Thurston says  
C1

11:30  
*Markus Pantsar*  
Complexity of mathematical cognitive tasks  
C1

12:00  
*Henrik Kragh Sørensen and Mikkel Willum Johansen*  
Employing computers in posing and attacking mathematical problems: Human mathematical practice, experimental mathematics, and proof assistants  
C1

**Room 347**

**Session 6D**  
**B2 SYMP Approaching probabilistic**

Tue, 6th

Tue, 6th

**truths, in comparison with approaching deterministic truths 2 (APT-2)***Chair: Ilkka Niiniluoto*

11:00

*Theo Kuipers*

Inductively approaching a probabilistic truth and a deterministic truth, the latter in comparison with approaching it in a qualitative sense

B2

11:30

*Igor Douven*

Optimizing group learning of probabilistic truths

B2

12:00

*Graham Oddie*

Credal accuracy in an indeterministic universe

B2

**Room Krejcar****Session 6E****A3 Invited speaker***Chair: Zuzana Haniková*

11:00

*Jan Krajčiček*

What is proof complexity?

**Room 202****Session 6F****C7 Philosophy of social science***Chair: Menashe Schwed*

11:00

*Wei Wang*

Methodological individualism and holism in the social sciences

C7

11:30

*Germán Hevia Martínez*

Can we apply the science/technology distinction to the social sciences? A brief analysis of the question

C7

12:00

*Andrey Orekhov*

CMW-revolution in social sciences as a type of "scientific revolution"

C7

**Room 302****Session 6G****B6 Popper, Lakatos, Feyerabend 2***Chair: Lei Ma*

11:00

*Matteo Collodel*

Feyerabend and the reception and development of logical empiricism

B6

11:30

*Jamie Shaw*

Feyerabend's well-ordered science: How an anarchist distributes funds

B1, B6

**Room 201****Session 6H****B3 Empirical and experimental philosophy of science 2***Chair: Kati Kish Bar-On*

11:00

*Vitaly Pronskikh, Kaja Damjanović, Polina Petruhina, Arpita Roy and Vlasta Sikimić*

Are in-depth interviews a must for ethnography of HEP labs?

B3, C2

11:30

*Romain Sauzet*

Cognitive and epistemic features: a tool to identify technological knowledge

B3, C8

12:00

*Maria Makhova and Anastasia Arinushkina*

Scientific communication in the problematic field of epistemology: inside and / or outside (in French)

B2, B3, C7

**Room 301****Session 6I****B1 Evidence 2***Chair: Vít Punčochář*

11:00

*Shinod N.K.*

Evidential relations in a trading zone

B1

11:30

*Elisángela Ramírez-Cámara*

Is biased information ever useful (in the philosophy of science)?

B1

**Room 343****Session 6J****B1 Pluralism and relativism***Chair: Sophie Juliane Veigl*

11:00

*Mark Fischer*

Pluralism and relativism from the perspective of significance in epistemic practice

B1, B2, B4

11:30

*Ave Mets*

The pluralist chemistry and the constructionist philosophy of science

B1, C2

**Room 346****Session 6K****A4 History and development of modern logic 4***Chair: Gabriela Besler*

11:00

*Hidenori Kurokawa*

On Takeuti's view of the concept of set

A4

11:00–12:30

14:00–15:00

14:00–15:00

**Room 364****Session 6L****A2 Logics of knowledge and beliefs 2***Chair: Margarita Vázquez*

11:00

*José Rafael Herrera González*

Combining temporal and epistemic logic:

A matter of points of view

A1, A2, B2

11:30

*Ayse Sena Bozdog*

Modeling belief base dynamics using

HYPE semantics

A2

12:00

*Libor Běhounek*A formalism for resource-sensitive  
epistemic logic

A2

**Room 250****Session 6M****A2 Logical analysis of paradoxes 1***Chair: Joachim Hertel*

11:00

*Edoardo Rivello*

Definite truth

A2

11:30

*Wen-Fang Wang*A three-valued pluralist solution  
to the sorites paradox

A2

12:00

*Vladimír Svoboda*Language games and paradoxes  
of deontic logic(s)

A2

12:30–14:00 Lunch break

**Room 152+153****Session 7A****B1 SYMP Can the history of science  
be used to test philosophy?****1. Symposium of the Joint Commission  
of the IUHPST 2 (JC2-1)***Chair: Jouni-Matti Kuukkanen*

14:00

*Raphael Scholl*Scenes from a Marriage: On the  
confrontation model of history and  
philosophy of science

B1

14:30

*Luca Tambolo*

The problem of rule-choice redux

B1

**Room Janák****Session 7B****C2 SYMP Climate change: History and  
philosophy of science and nature of  
science challenges****1. Symposium of the Inter-Divisional  
Teaching Commission of the IUHPST  
(IDTC-1)***Chair: Jeroen Hopster*

14:00

*Ludovic Touze-Peiffer*History and epistemology of climate  
model intercomparison projects

C2

14:30

*Yuting Yao*Fragmented authoritarian  
environmentalism, nationalism,  
ecological civilisation and climate  
change in China

C2

**Room 112+113****Session 7C****C1 SYMP Association for the  
Philosophy of Mathematical Practice  
Symposium 3 (APMP-3)***Chair: Silvia De Toffoli*

14:00

*Gisele Secco*The interaction between diagrams and  
computers in the first proof of the Four-  
Color Theorem

C1

14:30

*John Mumma*The computational effectiveness of  
geometric diagrams

C1

**Room 347****Session 7D****B4 Metaphysical issues in philosophy  
of science***Chair: Charles Sebens*

14:00

*C. D. McCoy*

Counterfeit chance

B4

14:30

*Paul Weingartner*

A defence of pluralism of causality

B2, B4

**Room Krejcar****Session 7E****A4 Invited speaker***Chair: Dirk Schlimm*

14:00

*Anna Brożek*Formal and informal logic in the Lvov-  
Warsaw school**Room 202****Session 7F****B4 Dispositions***Chair: Amita Chatterjee*

14:00

*Nelida Gentile and Susana Lucero*On the unifying character of dispositional  
realism

B4

Tue, 6th

Tue, 6th

14:30  
*Vassilis Livanios*  
 Can categorical properties confer dispositions?  
 B4

### Room 302

#### Session 7G

##### B5 Politics, science and society 1

Chair: *Alice Roberts*

14:00  
*Andrew Schroeder*  
 Values in science: Ethical vs. political approaches  
 B5

14:30  
*Victor Hugo Pinto*  
 The problem of scientific-epistemological racism and the contributions of southern global epistemologies in the construction of paradigmatic transformations of the philosophy of science  
 B2, B5, B6

### Room 201

#### Session 7H

##### B6 Historical aspects of philosophy of science

Chair: *Priyedarshi Jetli*

14:00  
*Chia-Hua Lin*  
 The increasing power of Chomsky

hierarchy: A case study of formal language theory used in cognitive biology  
 B1, B6, C5, C6, C8

14:30  
*Alexander Krauss*  
 How early humans made the sciences possible  
 B6

### Room 301

#### Session 7I

##### C4 Explanation in the biomedical and health sciences

Chair: *Martin Zach*

14:00  
*Tuomas Vesterinen*  
 An explanatory view of individuating natural kinds  
 C3, C4, C5, C7

14:30  
*Leen De Vreese*  
 Risk factors, explanation and scientific understanding  
 C4

### Room 343

#### Session 7J

##### B1 Pluralism and division of labor

Chair: *Olha Simoroz*

14:00  
*Filip Tvrđý*  
 Mysterianism and the division

of cognitive labour  
 B1, C3, C5

14:30  
*Sophie Juliane Veigl*  
 An empirical challenge for scientific pluralism – Alternatives or integration?  
 B1, B3, C3

### Room 346

#### Session 7K

##### C7 Social ontology 1

Chair: *Tomoyuki Yamada*

14:00  
*Max Weaver*  
 Pegging levels  
 C7

14:30  
*Nan Wang and Bo Cong Li*  
 On social reality: Taking the enterprise as an example  
 C7

### Room 364

#### Session 7L

##### C2 Philosophy of chemistry

Chair: *Marina Paola Banchetti-Robino*

14:00  
*Alfio Zambon and Mariana Córdoba*  
 Chemical reactivity: Causality or reciprocal action?  
 C2

14:30  
*Myron A. Penner and Amanda Nichols*

Realism about molecular structures  
 B4, C2

### Room 250

#### Session 7M

##### A2 Logical analysis of paradoxes 2

Chair: *Kateřina Trlifajová*

14:00  
*Doroteya Angelova*  
 Logical approaches to vagueness and sorites paradoxes  
 A2

14:30  
*David Liggins*  
 Semantic paradoxes of underdetermination  
 A2

### Room 152+153

#### Session 8A

##### B1 SYMP Can the history of science be used to test philosophy? 2. Symposium of the Joint Commission of the IUHPST 2 (JC2-2)

Chair: *Jouni-Matti Kuukkanen*

15:15  
*Jouni-Matti Kuukkanen*  
 Truth, incoherence and the evolution of science  
 B1

15:45  
*Veli Virmajoki*  
 The science we never had  
 B1

### Room Janák

**Session 8B**  
**C2 SYMP Climate change: History and philosophy of science and nature of science challenges 2. Symposium of the Inter-Divisional Teaching Commission of the IUHPST (IDTC-2)**

*Chair: Ludovic Touze-Peiffer*

15:15  
*Jeroen Hopster*  
 Real climate possibilities: Proximate vs. remote  
 C2

15:45  
*Dragana Bozin and Anna Smajdor*  
 Bridging the gap between science and public through engineering environmental concepts  
 C2

### Room 112+113

**Session 8C**  
**C1 SYMP Association for the Philosophy of Mathematical Practice Symposium 4 (APMP-4)**

*Chair: Silvia De Toffoli*

15:15  
*Ladislav Kvasz*

On the relations between visual thinking and instrumental practice in mathematics  
 C1

15:45  
*Arezoo Islami*  
 Who discovered imaginaries? On the historical nature of mathematical discovery  
 C1

### Room 347

**Session 8D**  
**C8 SYMP Academic means–end knowledge in engineering, medicine and other practical sciences 1. Symposium of the DLMPST Commission on the Philosophy of Technology and Engineering Sciences (AMEK-1)**

*Chair: Sjoerd Zwart*

15:15  
*Henri Salha*  
 Declarative and procedural knowledge: A recent mutation of the theory/practice duality and its significance in the era of computational science  
 C8

15:45  
*Sjoerd Zwart*  
 Interlocking models validating engineering means–end knowledge  
 C8

### Room Krejcar

**Session 8E**  
**B3 Invited speaker**  
*Chair: Martin Zach*

15:15  
*Dunja Šešelja*  
 Understanding scientific inquiry via agent-based modeling

### Room 202

**Session 8F**  
**C5 Interdisciplinarity in the cognitive sciences**

*Chair: Tomasz Schubart*

15:15  
*Ståle Gundersen*  
 Can neuropsychanalysis save the life of psychoanalysis?  
 C5

15:45  
*Przemysław Nowakowski*  
 Problematic interdisciplinarity of the cognitive science  
 C5

### Room 302

**Session 8G**  
**B5 Politics, science and society 2**  
*Chair: Augustė Dementavičienė*

15:15  
*Tereza Křepelová*  
 Positivation of political philosophy

and its impact on the whole discipline  
 B1, B4, B5

15:45  
*Zhicong Shang*  
 The competition of interests in public scientific knowledge production – An analysis of Chinese case  
 B5

### Room 346

**Session 8H**  
**C7 Social ontology 2**  
*Chair: Olha Simoroz*

15:15  
*Tomoyuki Yamada*  
 Count-as conditionals, background conditions and hierarchy of constitutive rules  
 C7

### Room 301

**Session 8I**  
**C4 Ethical issues in genomic technologies**  
*Chair: Cristin Chall*

15:15  
*Renzong Qiu and Ruipeng Lei*  
 Intergenerational justice issues in germline genome editing  
 C4

15:45  
*Xiaoju Dong*  
 How should we treat human

enhancement technology: Acceptance or rejection?  
C4, C5, C7, C8

### Room 343

#### Session 8J B1 Pluralism and metaphysical aspects of science 1

Chair: *Mark Fischer*

15:15  
*Ruey-Lin Chen and Jonathon Hricko*  
Pluralism about criteria of reality  
B4

15:45  
*Giuseppina D'Oro*  
Why epistemic pluralism does not entail relativism  
B1, B4, B6

### Room 201

#### Session 8K B3 Construction of scientific knowledge

Chair: *Vít Gvoždík*

15:15  
*Guillermo Samuel Tovar-Sánchez and Luis Mauricio Rodríguez-Salazar*  
From subject natural logic to scientist logic in natural science:  
An epistemological reflexion  
B3

### Room 364

#### Session 8L A2 Normative reasoning 1

Chair: *Cian Guilfoyle Chartier*

15:15  
*Alice Roberts*  
A bridge for reasoning: Logical consequence as normative  
A2

15:45  
*Manidipa Sanyal and Debirupa Basu*  
Attack at dawn if the weather is fine  
A2

### Room 250

#### Session 8M A2 Logical analysis of paradoxes 3

Chair: *Joachim Hertel*

15:15  
*Meha Mishra and Dr A.V. Ravishankar Sarma*  
An attempt to highlight ambiguities in approaches to resolve Chisholm paradox  
A2

15:45  
*Jiří Raclavský*  
Type theory, reducibility and epistemic paradoxes  
A2

16:15–16:45 Coffee break

### Room 112+113

#### Session 9C C1 SYMP Association for the Philosophy of Mathematical Practice Symposium 5 (APMP-5)

Chair: *Silvia De Toffoli*

16:45  
*Janet Folina*  
The philosophy and mathematical practice of Colin Maclaurin  
C1

17:15  
*Marlena Fila*  
On continuity in Bolzano's 1817 Rein analytischer Beweis  
C1

### Room 347

#### Session 9D C8 SYMP Academic means–end knowledge in engineering, medicine and other practical sciences 2. Symposium of the DLMPST Commission on the Philosophy of Technology and Engineering Sciences (AMEK-2)

Chair: *Sjoerd Zwart*

16:45  
*Juan M Durán and Nico Formanek*  
Computational reliabilism: Building trust in medical simulations  
C8

17:15  
*Maarten Franssen*  
Truth-values for technical norms and evaluative judgements: A comparative analysis  
C8

### Room Krejcar

#### Session 9E B6 Invited speaker

Chair: *Lilia Gurova*

16:45  
*Gurol Irzik and Sibel Irzik*  
Kuhn's wide-ranging influence on the social sciences, literary theory, and the politics of interpretation

### Room 202

#### Session 9F B7 SYMP Mario Bunge: Appraising his long-life's contribution to philosophy 1 (MBA-1)

Chair: *Jean-Pierre Marquis*

16:45  
*Alberto Cordero*  
Four realist theses of Mario Bunge  
B1, B7, C2

17:15  
*Rodolfo Gaeta*  
Mario Bunge: A pioneer of the new philosophy of science  
B6

16:45–17:45

**Room 302****Session 9G****B2 Multi-agents and teams***Chair: Marta Bílková*

16:45

*Vlasta Sikimic*

Optimal team structures in science

B2

17:15

*Petros Stefaneas and Ioannis**Vandoulakis*

Mathematical proving as spatio-temporal activity of multi-agent systems

B2

**Room 346****Session 9H****B4 Computation***Chair: Mario Santos-Sousa*

16:45

*Javier Anta*

Symplectic battlefronts. Phase space arguments for (and against) the physics of computation

B4, C2

17:15

*Tatiana Leshkevich*

Digital determination and the search for common ground

B4

**Room 301****Session 9I****C4 Understanding psychotherapy***Chair: Lisa Zorzato*

16:45

*Giulia Battilotti, Milos Borozan and**Rosapia Lauro Grotto*

A discussion of bi-logic and Freud's representation theory in formal logic

C4

17:15

*Chi-Hsiang Chen*

Using repertoire to understand psychotherapy

C4, C5, C7, C8

**Room 343****Session 9J****B1 Pluralism and metaphysical aspects of science 2***Chair: Enrico Brugnami*

16:45

*Mariana Córdoba, Cristian López and**Hernán Accorinti*

Metaphysical pluralism: Between skepticism and trivialization?

B4

17:15

*Manuel Liz and Margarita Vázquez*

Scientific perspectivism. Metaphysical aspects

B4

16:45–17:45

**Room 201****Session 9K****B1 Discovery***Chair: Jared Neumann*

16:45

*Cruz Davis and Benjamin Jantzen*

Do heuristics exhaust the methods of discovery?

B1, B2, C6

**Room 364****Session 9L****A2 Normative reasoning 2***Chair: Francisco Martínez Herrera*

16:45

*Stef Frijters and Thijs De Coninck*

If killing is forbidden, do I have to ensure that no one is killed?

A2

17:15

*Francisco Diaz Montilla*

Fuzzy logic and quasi-legality

A2

**Room 250****Session 9M****A2 Logical analysis of paradoxes 4***Chair: Joachim Hertel*

16:45

*Ren-June Wang*

Knowledge, reasoning time, and Moore's paradox

A2, A3

18:00–19:30

17:15

*Jordi Valor Abad*

Is the liar sentence meaningless?

A2

**Room 152+153****Session 10A****B1 What is the value of history of science for philosophy of science? Joint Commission of the IUHPST 1 (JC1)***Chair: Hasok Chang*

18:00

*Agnes Bolinska and Joseph D. Martin*

Negotiating history: Contingency, canonicity, and case studies

B1, B6

19:00

*Max Dresow*

History and philosophy of science after the practice-turn: From inherent tension to local integration

B1, B6

**Room 347****Session 10B****B2 Pluralism and philosophy of the formal sciences***Chair: Luis Estrada-González*

18:00

*Maria Paola Sforza Fogliani*

Revising logic: Anti-exceptionalism and circularity

C1

Tue, 6th

Tue, 6th



18:30  
*Zeynep Soysal*  
 Independence and metasemantics  
 C1

### Room 401

**Session 10C**  
**B1 Experiments**  
*Chair: Dragana Bozin*

18:00  
*Matej Kohar*  
 Top-down inhibitory experiments:  
 the neglected option  
 C3, C5

18:30  
*Rebecca Jackson*  
 Sending knowns into the unknown:  
 Towards an account of positive controls  
 in experimentation  
 B1, C3, C4, C7

### Room Krejcar

**Session 10E**  
**C6 Invited speaker**  
*Chair: Giuseppe Primiero*

18:00  
*Raymond Turner*  
 Computational abstraction

### Room 202

**Session 10F**  
**B7 SYMP Mario Bunge: Appraising his**

**long-life's contribution to philosophy 1**  
**(MBA-2)**

*Chair: Jean-Pierre Marquis*

18:00  
*Maria Manzano and Manuel Crescencio  
 Moreno Gomez*  
 Quantifiers and conceptual existence  
 A2

18:30  
*Michael Matthews*  
 Mario Bunge and the enlightenment  
 project in science education  
 B7, C7

### Room 302

**Session 10G**  
**B4 Democracy and the structure  
 of science**  
*Chair: Anna Estany*

18:00  
*Jeroen Van Bouwel*  
 Are transparency and representativeness  
 of values hampering scientific pluralism?  
 B5, C7

18:30  
*Karim Bschr*  
 Corporate funding of public research:  
 A Feyerabendian perspective  
 B5

19:00  
*Laura García and Abraham Hernández*

The role of TV series in the  
 democratization of science  
 B5, C7

### Room 346

**Session 10H**  
**B4 Metaphysical aspects: Sellars  
 and Quine**  
*Chair: Manuel Liz*

18:00  
*Pablo Vera Vega*  
 Rethinking the given. Sellars on the first  
 principles.  
 B4

18:30  
*Ivory Pribram-Day*  
 The problem of the variable in Quine's  
 lingua franca of the sciences  
 A2, B1, B2, B4, C1

### Room 301

**Session 10I**  
**C1 Deduction**  
*Chair: Atocha Aliseda*

18:00  
*Ranjan Mukhopadhyay*  
 Natural deduction rules as means  
 of knowing  
 C1

### Room 343

**Session 10J**  
**C2 Relativity: Ontology**  
*Chair: Samuel Fletcher*

18:00  
*Kevin Coffey*  
 The ontology of mass and energy in  
 special relativistic particle dynamics  
 B4, C2

18:30  
*Anguel Stefanov*  
 Spacetime: Substantive or relational?  
 C2

19:00  
*Thomas Benda*  
 Change, temporal anticipation,  
 and relativistic spacetime  
 B4

### Room 201

**Session 10K**  
**B4 Metaphysical issues in philosophy  
 of science**  
*Chair: Peeter Mürsepp*

18:00  
*Enrico Brugnami*  
 Scientific ways of worldmaking.  
 Considerations on philosophy of biology  
 from Goodman's theory of worlds  
 B4, C3

18:30  
*Leon-Philip Schäfer*  
 Objectivity as mind-independence –  
 Integrating scientific and moral realism  
 B4



19:00

*Souichiro Honma*Free will and the ability to change laws  
of nature

B4

Formalizing the sorites paradox  
in mathematical fuzzy logic

A2

**Room 364****Session 10L****A2 Normative reasoning 3***Chair: Olha Simoroz*

18:00

*María D. García*Justification of basic inferences  
and normative freedom

A2

19:00

*Michał Tomasz Godziszewski and Rafal  
Urbaniak*Modal quantifiers, potential infinity,  
and Yablo sequences

A2

18:30

*Nathan Wood and Thijs De Coninck*

Probabilistic agent-dependent oughts

A2

**Room 250****Session 10M****A2 Logical analysis of paradoxes 5***Chair: Joachim Hertel*

18:00

*Berta Grimau*

Fuzzy semantics for graded adjectives

A2

18:30

*Petr Cintula, Carles Noguera and**Nicholas Smith*

Wed, 7th

Wednesday, 7th August

Wed, 7th

09:00	Session 11A C7 SYMP Phil of the hist sci 1 (PHS-1)	Session 11B A2 SYMP Logic, agency, and rationality 1 (LoARa-1)	Session 11C B6 SYMP Karl Popper: His science and his philosophy 1 (KRP-1)	Session 11D B7 New perspectives on education: Writing, literature, and out-of-school contexts	Session 11E B4 Reduction and emergence	Session 11F C6 Societal, ethical and epistemological issues of AI 1		Session 11G B4 Metaphysical aspects: Laws	Session 11H B1 Historical and social epistemology	Session 11I C3 Epist. and reasoning in biomedical practice 1	Session 11J C2 Epist., phil. of physics and chemistry 1	Session 11K B1 SYMP Factivity of understanding1 (EENPS-1)	Session 11L B2/C1 Probability	Session 11M C7 History and philosophy of the humanities 1
09:30														
10:00	10:30–11:00 Coffee break													
10:30														
11:00	Session 11A C7 SYMP PHS-2	Session 12B A2 SYMP Text-driven app 1 LoARa-2	Session 12C B6 SYMP Karl Popper: His science and his philosophy 2 (KRP-2)	Session 12D B4 Modalities in science	Session 12E IS B7 Matthews	Session 12F B4 Explanation and understanding 1		Session 12G B1/C3 Understanding models in science	Session 12H C1 Mathematical language	Session 12I B1 Dynamics of science	Session 12J C4 Epist. and reasoning in biomedical practice 2	Session 12K B1 SYMP EENPS-2	Session 12L C7 History and philosophy of the humanities 2	Session 12M A2 Logical analysis of science and philosophy 1
11:30														
12:00														
12:30	12:30–14:00 Lunch break													
14:00	Session 13A C1 SYMP Text-driven app 1 (TDPHiMa-1)	Session 13B A2 SYMP LoARa-3	Session 13C B6 SYMP KRP-3	Session 13D B7 Sci edu	Session 13E IS C8 Bursten	Session 13F C6 Soc, eth and epist issues of AI 2		Session 13G B4 Exp&und 2	Session 13H B6 History and philosophy of the life sciences 1	Session 13I C2 Epist, philo-sophy of physics and chemistry 2	Session 13J C7 Phil. of the humanities and social sciences		Session 13L C1 Pluralism and philosophy of the formal sciences 1	Session 13M A2 Logical analysis of science and philosophy 2
14:30														
15:00	Session 14A C1 SYMP TDPHiMa-2	Session 14B A2 SYMP LoARa-4	Session 14C B6 SYMP KRP-4	Session 14D B7 Sci edu pseudo-science and fake news	Session 14E IS B1 Aliseda	Session 14F C6 Soc, eth and epist issues of AI 3		Session 14G C8 Phil of the applied sciences and technology	Session 14H B6 History and philosophy of the life sciences 2	Session 14I B2 Abduction	Session 14J B4 Metaphysical aspects: Conceptual analysis 1	Session 14K A1 Mathematical logic 1: Model theory	Session 14L C1 Pluralism and philosophy of the formal sciences 2	Session 14M A2 Logical analysis of science and philosophy 3
15:30														
16:00	16:15–16:45 Coffee break													
16:30	Session 15A C1 SYMP TDPHiMa-3	Session 15B A2 SYMP LoARa-5	Session 15C B6 SYMP KRP-5	Session 15D B1 Methodology: Societal issues	Session 15E IS C7 Alexandrova	Session 15F C1 Philosophy of the formal sciences		Session 15G C6 Soc, eth and epist issues of AI 4	Session 15H C3/B6 Transition and change in science	Session 15I B1 Epistemology 1	Session 15J B4 Maca 2		Session 15L SYMP SLMFCE 1	Session 15M C5 Phil. of the cog. and behavioral sciences 1
17:00														
17:30														
18:00	Session 16A C1 SYMP TDPHiMa-4	Session 16B A2 SYMP LoARa-6	Session 16C B1/B2/B3 Theory assessment and theory change	Session 16D C8 Philosophy of the applied sciences and technology	Session 16E IS B4 Knuuttila	Session 16F C6 Phil of comp		Session 16G B5 Pragmatism	Session 16H B6/C7 Philosophy of Popper; Hypothetical reasoning	Session 16I B2 Formal philosophy of science and formal epistemology: Axiomatic and formal topics	Session 16J B1 Epist 2	Session 16K B1/B6 Transition	Session 16L SYMP SLMFCE 2	Session 16M C5 Phil. of the cog. and behavioral sciences 2
18:30														
19:00														
19:30														

Wed, 7th

**Room 401****Session 11A**

C7 SYMP Symposium on the philosophy of the historical sciences 1 (PHS-1)

*Chair: Giuseppina D'Oro*

09:00

*Stephen Boulter*

On the possibility and meaning of truth in the historical sciences

B4

09:30

*Aviezer Tucker*

Origins

C7

**Room 152+153****Session 11B**

A2 SYMP Logic, agency, and rationality 1 (LoARa-1)

*Chair: Valentin Goranko*

09:00

*Karl Nygren*

Varieties of permission for complex actions

A2

09:30

*Alessandra Marra and Dominik Klein*

From oughts to goals

A2

10:00

*Thijs De Coninck and Frederik*

*Van De Putte*

Reciprocal group oughts

A2

**Room 250****Session 11C**

B6 SYMP Karl Popper: His science and his philosophy 1 (KRP-1)

*Chair: Zuzana Parusniková*

09:00

*Olival Freire Junior*

Popper and the quantum controversy

B6

09:30

*Flavio Del Santo*

Comment on "Popper and the quantum controversy"

B6

10:00

*Peter Århem*

Popper on the mind-brain problem

B6

**Room 343****Session 11D**

B7 New perspectives on education: Writing, literature, and out-of-school contexts

*Chair: Kateřina Trlifajová*

09:00

*Caroline E. Murr*

Defamiliarization in science fiction: New perspectives on scientific concepts

B6, B7, C2, C7

09:30

*Judith Puncochar*

9:00–10:30

Reducing vagueness in linguistic expression  
B7

10:00  
*Zhengshan Jiao*  
The history of science-related museums: A comparative and cultural study  
B7

### Room 302

#### Session 11E B4 Reduction and emergence

*Chair: Jacqueline Sullivan*

09:00  
*Veli-Pekka Parkkinen*  
Robustness in configurational causal modelling  
B1

09:30  
*Erica Onnis*  
Discontinuity and robustness as hallmarks of emergence  
B4, C9

10:00  
*Gualtiero Piccinini*  
Levels of being: An egalitarian ontology  
B4

### Room Janák

#### Session 11F C6 Societal, ethical and epistemological issues of AI 1

*Chair: Ave Mets*

09:00  
*Jean-Michel Kantor*  
Machine learning: A new technoscience  
C9

09:30  
*Maël Pégnny and Mohamed Issam Ibnouhsein*  
Can machine learning extend bureaucratic decisions?  
B5, C6

10:00  
*Ken Archer*  
The historical basis for algorithmic transparency as central to AI ethics  
C6

### Room Krejcar

#### Session 11G B4 Metaphysical aspects: Laws

*Chair: Vera Matarese*

09:00  
*Alfonso García Lapeña*  
Scientific laws and closeness to the truth  
B2, B4

09:30  
*Eduardo Castro*  
Laws of nature and explanatory circularity  
B4

### Room 402

#### Session 11H B1 Historical and social epistemology

*Chair: Vít Gvoždiak*

9:00–10:30

09:00  
*Natalia Kozlova*  
The problem of figurativeness in science: From communication to the articulation of scientific knowledge  
B1, B2

09:30  
*Denis Artamonov*  
Media memory as the object of historical epistemology  
B1, B3, B6, C7

10:00  
*Sophia Tikhonova*  
Knowledge production in social networks as the problem of communicative epistemology  
B1, B3, B6, C7

### Room 201

#### Session 11I C3 Epistemology and reasoning in biomedical practice 1

*Chair: Juraj Hvorecký*

09:00  
*Luciana Garbayo, Wlodek Zadrozny and Hossein Hematialam*  
Measurable epistemological computational distances in medical guidelines peer disagreement  
A3, B1, B2, C4

### Room 346

#### Session 11J C2 Epistemology, philosophy of physics and chemistry 1

*Chair: Lukáš Bielik*

09:00  
*Amaia Corral-Villate*  
On the Infinite Gods paradox via representation in Classical Mechanics  
C2

09:30  
*Dimitra Kountaki*  
Anthropocentrism in science  
C2

### Room 202

#### Session 11K B1 SYMP Factivity of understanding: Moving beyond the current debates 1. Symposium of the EENPS (EENPS-1)

*Chair: Lilia Gurova*

09:00  
*Richard David-Rus*  
Considering the factivity of non-explanatory understanding  
B1

09:30  
*Martin Zach*  
Understanding metabolic regulation: A case for the factivists  
B1

Wed, 7th

Wed, 7th

9:00–10:30

11:00–12:30

11:00–12:30

10:00  
*Lilia Gurova*  
Effectiveness, exemplification, and factivity  
B1

**Room 347**

**Session 11L**  
**B2/C1 Probability**

*Chair: Dan Gabriel Simbotin*

09:00  
*Jakob Koscholke*  
Siebel's argument against Fitelson's measure of coherence reconsidered  
B2

09:30  
*Vladimir Reznikov*  
Frequency interpretation of conditions for the application of probability theory according to Kolmogorov  
C1

**Room 301**

**Session 11M**  
**C7 History and philosophy of the humanities 1**

*Chair: Olha Simoroz*

09:00  
*Hugo Tannous Jorge*  
The problem of causal inference in clinical psychoanalysis: A response to the charges of Adolf Grünbaum based on the inductive principles of the historical sciences.  
C7

09:30  
*Vladimir Medvedev*  
Explanation in Humanities  
C7

**10:30–11:00 Coffee break**

**Room 401**

**Session 12A**  
**C7 SYMP Symposium on the philosophy of the historical sciences 2 (PHS-2)**

*Chair: Aviezer Tucker*

11:00  
*David Černín*  
Experiments in history and archaeology: Building a bridge to the natural sciences?  
B1, B3, C7

11:30  
*Jonas Ahlskog and Giuseppina D'Oro*  
Collingwood, the narrative turn, and the cookie cutter conception of historical knowledge  
B1, C7

**Room 152+153**

**Session 12B**  
**A2 SYMP Logic, agency, and rationality 2 (LoARa-2)**

*Chair: Valentin Goranko*

11:00  
*Grigory Olkhovikov*  
Stit heuristics and the construction of justification stit logic  
A2

11:30  
*Alexandra Kuncová*  
Ability and knowledge  
A2

12:00  
*Ilaria Canavotto, Alexandru Baltag and Sonja Smets*  
Introducing causality in stit logic  
A2

**Room 250**

**Session 12C**  
**B6 SYMP Karl Popper: His science and his philosophy 2 (KRP-2)**

*Chair: Zuzana Parusniková*

11:00  
*David Miller*  
Comment on "Popper on the mind-brain problem"  
B6

11:30  
*Denis Noble*  
The rehabilitation of Karl Popper's views of evolutionary biology and the agency of organisms  
B6

12:00  
*Philip Madgwick*  
Agency in evolutionary biology  
B6

**Room 302**

**Session 12D**  
**B4 Modalities in science**

*Chair: Maria Ferreira Ruiz*

11:00  
*Mihai Rusu and Mihaela Mihai*  
Modal notions and the counterfactual epistemology of modality  
B4, C7

11:30  
*Ilmari Hirvonen, Rami Koskinen and Ilkka Pättiniemi*  
Epistemology of modality without metaphysics  
B1, B4

**Room Krejcar**

**Session 12E**  
**B7 Invited speaker**

*Chair: Helen Longino*

11:00  
*Michael Matthews*  
Philosophy in science teacher education

**Room 402**

**Session 12F**  
**B4 Explanation and understanding 1**

*Chair: Priyedarshi Jetli*

11:00  
*Fabio Sterpetti*  
Non-causal explanations of natural phenomena and naturalism  
B4

Wed, 7th

Wed, 7th

11:30  
*Andrei Marasoiu*  
 The truth in understanding  
 B1, B4

### Room 343

#### Session 12G B1/C3 Understanding models in science

Chair: *Chia-Hua Lin*

11:00  
*Thomas Durlacher*  
 Idealizations and the decomposability of models in science  
 B1, C2, C3

11:30  
*Walter Veit*  
 Who is afraid of model pluralism?  
 B1, C3, C5, C6

### Room 347

#### Session 12H C1 Mathematical language

Chair: *Kati Kish Bar-On*

11:00  
*Luc Pellissier and Juan-Luis Gastaldi*  
 Duality and interaction: A common dynamics behind logic and natural language  
 A1, C1, C7

11:30  
*Valeria Giardino*  
 The practice of proving a theorem: From conversations to demonstrations  
 C1

12:00  
*Onyu Mikami*  
 An attempt at extending the scope of meaningfulness in Dummett's theory of meaning.  
 C1

### Room 346

#### Session 12I B1 Dynamics of science

Chair: *Holger Andreas*

11:00  
*Hernán Bobadilla*  
 Two types of unrealistic models: programatic and prospective  
 B1

11:30  
*Emma Ruttkamp-Bloem*  
 A dynamic neo-realism as an active epistemology for science  
 B1

### Room 201

#### Session 12J C4 Epistemology and reasoning in biomedical practice 2

Chair: *Brice Bantegnie*

11:00  
*Adrian Erasmus*  
 Expected utility, inductive risk, and the consequences of p-hacking  
 B1, C4, C7

11:30  
*Renata Arruda*  
 Multicausality and manipulation in medicine  
 C4

### Room 202

#### Session 12K B1 SYMP Factivity of understanding: Moving beyond the current debates 2. Symposium of the EENPS (EENPS-2)

Chair: *Daniel Kostic*

11:00  
*Stefan Petkov*  
 Scientific explanations and partial understanding  
 B1

11:30  
*Daniel Kostic*  
 Factivity of understanding in non-causal explanations  
 B1

### Room 301

#### Session 12L C7 History and philosophy of the humanities 2

Chair: *Pablo Vera Vega*

11:00  
*Evelina Barbashina*  
 Schematism of historical reality  
 C7

11:30  
*Konstantin Skripnik and Ekaterina Shashlova*  
 Philosophy (and methodology) of the humanities: Towards constructing a glossary  
 C7

### Room 364

#### Session 12M A2 Logical analysis of science and philosophy 1

Chair: *Yaroslav Shramko*

11:00  
*Timm Lampert*  
 Theory of formalization: The Tractarian view  
 A3

11:30  
*Samuel Elgin*  
 The semantic foundations of philosophical analysis  
 A2

12:00  
*Zuzana Rybařiková*  
 Łukasiewicz's concept of anti-psychologism  
 A2, A4

### 12:30–14:00 Lunch break

**Room 112+113****Session 13A**

**C1 SYMP Text-driven approaches to the philosophy of mathematics 1 (TDPHiMa-1)**

*Chair: Carolin Antos*

14:00

*Marcos Cramer, Bernhard Fisseni, Deniz Sarikaya and Bernhard Schröder*  
Bridging the gap between proof texts and formal proofs using frames and PRSs  
C1

14:30

*Bernhard Fisseni*  
Perspectives on proofs  
C1

**Room 152+153****Session 13B**

**A2 SYMP Logic, agency, and rationality 3 (LoARa-3)**

*Chair: Valentin Goranko*

14:00

*Frederik Van De Putte*  
Constructive deliberation: pooling and stretching modalities  
A2

14:30

*Fengkui Ju*  
Coalitional logic on non-interfering actions  
A2

**Room 250****Session 13C**

**B6 SYMP Karl Popper: His science and his philosophy 3 (KRP-3)**

*Chair: Zuzana Parusniková*

14:00

*Helge Kragh*  
Popper and modern cosmology: His views and his influence  
B6

14:30

*Anastasiia Lazutkina*  
Comment on "Popper and modern cosmology"  
B6

**Room 343****Session 13D**

**B7 Concepts and conceptual change in science education**

*Chair: Vít Gvoždiak*

14:00

*Dragana Bozin*  
Teaching conceptual change: Can building models explain conceptual change in science?  
B7

**Room Krejcar****Session 13E**

**C8 Invited speaker**

*Chair: Martin Zach*

14:00

*Julia Bursten*  
Scale separation, scale dependence, and multiscale modeling in the physical sciences

**Room Janák****Session 13F**

**C6 Societal, ethical and epistemological issues of AI 2**

*Chair: Emma Ruttkamp-Bloem*

14:00

*Ravit Dotan*  
Machine learning, theory choice, and non-epistemic values  
B2, B5, C1, C6, C8

14:30

*Elizabeth Seger*  
Taking a machine at its word: Applying epistemology of testimony to the evaluation of claims by artificial speakers  
C8

**Room 402****Session 13G**

**B4 Explanation and understanding 2**

*Chair: Richard David-Rus*

14:00

*Holger Andreas*  
Explanatory conditionals  
B2

**Room 201****Session 13H**

**B6 History and philosophy of the life sciences 1**

*Chair: Mustafa Yavuz*

14:00

*Mustafa Yavuz*  
Definition and faculties of life in medieval Islamic philosophy  
C3, C4

14:30

*Daniel Nicholson*  
Schrödinger's 'What Is Life?' 75 years on  
B2

**Room 346****Session 13I**

**C2 Epistemology, philosophy of physics and chemistry 2**

*Chair: Ave Mets*

14:00

*Samuel Fletcher*  
The topology of intertheoretic reduction  
B2, C2

14:30

*Chrysovalantis Stergiou*  
Empirical underdetermination for physical theories in C\* algebraic setting: Comments to an Arageorgis's argument  
C2



14:00–15:00

15:15-16:15

15:15–16:15

**Room 301****Session 13J**

C7 Philosophy of the humanities and social sciences

*Chair: Juraj Hvorecký*

14:00

*Petr Špecián*

Thou shalt not nudge: Towards an anti-psychological state

C7

14:30

*Ivan F. da Cunha*

Utopias in the context of social technological inquiry

B6, C7

**Room 202****Session 13L**

C1 Pluralism and philosophy of the formal sciences 1

*Chair: Silvia De Toffoli*

14:00

*Andrea Sereni, Maria Paola Sforza Fogliani and Luca Zanetti*

A roundabout ticket to pluralism

C1

14:30

*Cian Guilfoyle Chartier*

A practice-oriented logical pluralism

C1

**Room 364****Session 13M**

A2 Logical analysis of science and philosophy 2

*Chair: Ansten Klev*

14:00

*Martin Tabakov*

Reflections on the term "philosophical logic"

A2

14:30

*Olga Karpinskaia*

Abstract and concrete concepts: an approach to classification

A2

**Room 112+113****Session 14A**

C1 SYMP Text-driven approaches to the philosophy of mathematics 2 (TDPHiMa-2)

*Chair: Deniz Sarikaya*

15:15

*Juan Luis Gastaldi and Luc Pellissier*

A structuralist framework for the automatic analysis of mathematical texts

C1

15:45

*Mikkel Willum Johansen*

Entering the valley of formalism: Results from a large-scale quantitative investigation of mathematical publications

B3, C1

**Room 152+153****Session 14B**

A2 SYMP Logic, agency, and rationality 4 (LoARa-4)

*Chair: Frederik Van De Putte*

15:15

*Soroush Rafiee Rad and Olivier Roy*

Deliberation, single-peakedness and voting cycles

A2

15:45

*Alexandru Baltag, Soroush Rafiee Rad and Sonja Smets*

Learning probabilities: A logic of statistical learning

A2

**Room 250****Session 14C**

B6 SYMP Karl Popper: His science and his philosophy 4 (KRP-4)

*Chair: Zuzana Parusniková*

15:15

*Stephen Senn*

De Finetti meets Popper or should Bayesians care about falsificationism?

B6

15:45

*Timothy Childers*

Comment on "De Finetti meets Popper"

B6

**Room 343****Session 14D**

B7 Science education, pseudo-science and fake news

*Chair: Judith Puncochar*

15:15

*Dennis Apolega*

Does scientific literacy require a theory of truth?

B1, B7

15:45

*Jan Štěpánek, Tomáš Ondráček, Iva Svačinová, Michal Stránský and Paweł Łupkowski*

Impact of teaching on acceptance of pseudo-scientific claims

B7, C7

**Room Krejcar****Session 14E**

B1 Invited speaker

*Chair: Vera Matarese*

15:15

*Atocha Aliseda*

A plurality of methods in the philosophy of science: How is that possible?

**Room Janák****Session 14F**

C6 Societal, ethical and epistemological issues of AI 3

*Chair: Amita Chatterjee*

15:15

*Agnè Alijauskaitė*  
Liability without consciousness?  
The case of a robot  
C8, C9

15:45

*David Fuenmayor and Christoph Benzmüller*  
Automated reasoning with complex ethical theories – A case study towards responsible AI  
A3, C8

### Room 346

#### Session 14G

**C8 Philosophy of the applied sciences and technology**

*Chair: Anna Estany*

15:15

*Robin Kopecký and Michaela Košová*  
How virtue signalling makes us better: Moral preference of selection of types of autonomous vehicles.  
C8

15:45

*Naira Danielyan*  
Prospect of NBICS development and application  
C8

### Room 201

#### Session 14H

**B6 History and philosophy of the life sciences 2**

*Chair: Olha Simoroz*

15:15

*Hein van den Berg*  
Theoretical virtues in eighteenth-century debates on animal cognition  
C3

15:45

*Martin Wasmer*  
Bridging between biology and law: European GMO law as a case for applied philosophy of science  
C3

### Room 301

#### Session 14I

**B2 Abduction**

*Chair: Priyedarshi Jetli*

15:15

*Lukáš Bielik*  
Abductive inference and selection principles  
B2

### Room 302

#### Session 14J

**B4 Metaphysical aspects: Conceptual analysis 1**

*Chair: Manuel Gustavo Isaac*

15:15

*Rogelio Miranda*  
Three problems with the identification of philosophy with conceptual analysis  
B1, B4

15:45

*Matt Barker*  
Using norms to justify theories within definitions of scientific concepts  
B1, B4, B5, C3

### Room 347

#### Session 14K

**A1 Mathematical logic 1: Model theory**

*Chair: Pablo Cubides*

15:15

*Guillermo Badia and Carles Noguera*  
A generalized omitting type theorem in mathematical fuzzy logic  
A1

15:45

*Inessa Pavlyuk and Sergey Sudoplatov*  
On ranks for families of theories of abelian groups  
A1

### Room 202

#### Session 14L

**C1 Pluralism and philosophy of the formal sciences 2**

*Chair: Pavel Arazim*

15:15

*Kengo Okamoto*  
How should we make intelligible the coexistence of the different logics? An attempt based on a modal semantic point of view  
C1

15:45

*Diego Fernandes*  
On the elucidation of the concept of relative expressive power among logics  
C1

### Room 364

#### Session 14M

**A2 Logical analysis of science and philosophy 3**

*Chair: Don Faust*

15:15

*Sara Ipakchi*  
Even logical truths are falsifiable  
A2

15:45

*Hussien Elzohary*  
The influence of the late school of Alexandria on the origin and development of logic in the Muslim world  
A2, A4

16:15–16:45 Coffee break

### Room 112+113

#### Session 15A

**C1 SYMP Text-driven approaches to the philosophy of mathematics 3 (TDPHiMa-3)**

*Chair: Deborah Kant*

16:45

*Juan Pablo Mejía Ramos and  
Matthew Inglis*

Using linguistic corpora to understand  
mathematical explanation

C1

17:15

*Fenner Tanswell and Matthew Inglis*

Studying actions and imperatives in  
mathematical texts

C1

### Room 152+153

#### Session 15B

##### A2 SYMP Logic, agency, and rationality 5 (LoARa-5)

*Chair: Frederik Van De Putte*

16:45

*Rasmus K. Rendsvig*

Dynamic term-modal logic

A2

17:15

*Dominik Klein*

A logical approach to Nash equilibria

A2

### Room 250

#### Session 15C

##### B6 SYMP Karl Popper: His science and his philosophy 5 (KRP-5)

*Chair: Zuzana Parusniková*

16:45

*Thomas Piecha*

Karl R. Popper: Logical writings

B6

17:15

*Constantin C. Brîncuş*

Comment on “Karl R. Popper: Logical  
writings”

B6

### Room 343

#### Session 15D

##### B1 Methodology: Societal issues

*Chair: Ivo Pezlar*

16:45

*Tomáš Ondráček*

Science as critical discussion and  
problem of immunizations

B1

17:15

*Michael Sidiropoulos*

Philosophical and demarcation aspects  
of global warming theory

B1, C2

### Room Krejcar

#### Session 15E

##### C7 Invited speaker

*Chair: Martin Zach*

16:45

*Anna Alexandrova*

On the definitions of social science and  
why they matter

### Room 346

#### Session 15F

##### C1 Philosophy of the formal sciences

*Chair: Zeynep Soysal*

16:45

*Melisa Vivanco*

Numbers as properties; dissolving  
Benacerraf’s tension

B4, C1

17:15

*Karl Heuer and Deniz Sarikaya*

The development of epistemic objects  
in mathematical practice: Shaping  
the infinite realm driven by analogies  
from finite mathematics in the area of  
combinatorics.

C1

### Room Janák

#### Session 15G

##### C6 Societal, ethical and epistemological issues of AI 4

*Chair: Hyundeuk Cheon*

16:45

*Insok Ko*

Prerequisite for employing intelligent  
machines as human surrogate

C5, C6, C8

17:15

*Bennett Holman*

Dr. Watson: The impending automation  
of diagnosis and treatment

B3, C4, C8, C9

### Room 301

#### Session 15H

##### C3/B6 Transition and change in science

*Chair: Juraj Hvorecký*

16:45

*Nathalie Gontier*

Time, causality and the transition from  
tree to network diagrams in the life  
sciences

C3

17:15

*Gabor Zemplen*

Evolving theories and scientific  
controversies: a carrier-trait approach

B6

### Room 201

#### Session 15I

##### B1 Epistemology 1

*Chair: Priyedarshi Jetli*

16:45

*Stephan Kornmesser*

Frames – A new model for analyzing  
theories

B1

17:15

*Demetris Portides and Athanasios  
Raftopoulos*

Abstraction in scientific modeling

B1

16:45–17:45

18:00–19:00

18:00–19:30

**Room 302****Session 15J****B4 Metaphysical aspects: Conceptual analysis 2***Chair: Manuel Gustavo Isaac*

16:45

*Laszlo E. Szabo*

Intrinsic, extrinsic, and the constitutive a priori

B4

**Room 202****Session 15L****SYMP Symposium of the Spanish Society of Logic, Methodology and Philosophy of Science 1 (SLMFCE 1)***Chair: Jose Martinez Fernandez*

16:45

*Jose Martinez Fernandez*

On revision-theoretic semantics for special classes of circular definitions

A2

17:15

*Sergi Oms*

Common solutions to several paradoxes. What are they? When should they be expected?

A2

**Room 364****Session 15M****C5 Philosophy of the cognitive and behavioral sciences 1***Chair: Konrad Rudnicki*

16:45

*Lavinia Marin*

Online misinformation as a problem of embodied cognition

C5, C8

17:15

*Sarah Songhorian*

The role of cognitive and behavioral research on implicit attitudes in ethics

C5

**Room 112+113****Session 16A****C1 SYMP Text-driven approaches to the philosophy of mathematics 4 (TDPHiMa-4)***Chair: Deborah Kant*

18:00

*Anna Kiel Steensen*

Semiotic analysis of Dedekind's arithmetical strategies

C1

18:30

*Karl Heuer and Deniz Sarikaya*

Text-driven variation as a vehicle for generalisation, abstraction, proofs and refutations: An example about tilings and Escher within mathematical education.

C1

**Room 152+153****Session 16B****A2 SYMP Logic, agency, and rationality 6 (LoARa-6)***Chair: Frederik Van De Putte*

18:00

*Antti Kuusisto*

Interactive Turing-complete logic via game-theoretic semantics

A2

18:30

*Raine Rönholm, Valentin Goranko and Antti Kuusisto*

Rationality principles in pure coordination games

A2

**Room 301****Session 16C****B1/B2/B3 Theory assessment and theory change***Chair: Tina Wachter*

18:00

*Lei Ma*

Empirical identity as an indicator of theory choice

B3

18:30

*Cristin Chall*

Abandoning models: When non-empirical theory assessment ends

B1, B3, C2

19:00

*In-Rae Cho*

Toward a coevolutionary model of scientific change

B3

**Room 343****Session 16D****C8 Philosophy of the applied sciences and technology***Chair: Naira Danielyan*

18:00

*Dazhou Wang*

A phenomenological analysis of technological innovations

C8

18:30

*Paulina Wiejak*

On engineering design. A philosophical inquiry

C8

19:00

*Aleksandr Fursov*

The anthropic technological principle

C8

**Room Krejcar****Session 16E****B4 Invited speaker***Chair: Martin Zach*

18:00

*Tarja Knuuttila*

Modeling biological possibilities in multiple modalities

**Room Janák****Session 16F****C6 Philosophy of computing and computation***Chair: Jiří Raclavský*

18:00  
*Jens Kipper*  
 Intuition, intelligence, data compression  
 C6

### Room 302

#### Session 16G B5 Pragmatism

Chair: *Pablo Vera Vega*

18:00  
*Ana Cuevas-Badallo and Daniel Labrador-Montero*  
 How pragmatism can prevent from the abuses of post-truth champions  
 B5

18:30  
*Nataliia Viatkina*  
 Deference as analytic technique and pragmatic process  
 B5, B7, C5, C7

### Room 250

#### Session 16H B6/C7 Philosophy of Popper; Hypothetical reasoning

Chair: *Olha Simoroz*

18:00  
*Manjari Chakrabarty*  
 Karl Popper, prehistoric technology and cognitive evolution  
 C7

18:30  
*Lois Rendl*  
 Peirce on the logic of science –  
 Induction and hypothesis

19:00  
*Martin Potschka*  
 What is an hypothesis?  
 B6

### Room 346

#### Session 16I B2 Formal philosophy of science and formal epistemology: Axiomatic and formal topics

Chair: *Libor Běhounek*

18:00  
*Salvatore Roberto Arpaia*  
 Incompleteness-based formal models  
 for the epistemology of complex  
 systems  
 B2, C5

18:30  
*Maria Dimarogkona and Petros Stefaneas*  
 A meta-logical framework for philosophy  
 of science  
 B2

19:00  
*Vladimir Lobovikov*  
 A formal axiomatic epistemology  
 theory and the controversy between  
 Otto Neurath and Karl Popper about  
 philosophy of science  
 B2

### Room 201

#### Session 16J B1 Epistemology 2

Chair: *Vera Matarese*

18:00  
*Rueylin Chen*  
 Natural analogy: A Hessean approach to  
 analogical reasoning in theorizing  
 B1

### Room 347

#### Session 16K B1/B6 Transition and change in science and technology

Chair: *Lukáš Zámečník*

18:00  
*Igor Frolov and Olga Koshovets*  
 Rethinking the transformation of  
 classical science in technoscience:  
 Ontological, epistemological and  
 institutional shifts  
 B1, B6

### Room 202

#### Session 16L SYMP Symposium of the Spanish Society of Logic, Methodology and Philosophy of Science 2 (SLMFCE 2)

Chair: *Jose Martinez Fernandez*

18:00  
*Lilian Bermejo-Luque*  
 What should a normative theory of  
 argumentation look like?  
 A2

18:30  
*Maria Cerezo*  
 Issues at the intersection between  
 metaphysics and biology  
 A2

### Room 364

#### Session 16M C5 Philosophy of the cognitive and behavioral sciences 2

Chair: *Filip Tvrđý*

18:00  
*Shunkichi Matsumoto*  
 How can we make sense of the  
 relationship between adaptive thinking  
 and heuristic in evolutionary psychology?  
 C5

18:30  
*Jakub Matyja*  
 Music cognition and transposition  
 heuristics: A peculiar case of mirror  
 neurons  
 C5

19:00  
*Błażej Skrzypulec*  
 What is constitutive for flavour  
 experiences?  
 C5



Thu, 8th

Thursday, 8th August

09:00	Session 17A A1 SYMP Some recent directions in model theory 1 (clmpsmo-1)	Session 17B B6 SYMP Bolzano's mathematics and the general methodology of the sciences 1 (BMMS-1)	Session 17C B1 SYMP What method for conceptual engineering 1 (MEt4CE-1)	Session 17D C3 Organisms	Session 17E C1 Mathematics and ideology	Session 17F C7 Economic method 1		Session 17G B4 Realism 1	Session 17H C2 Ontology in physics and chemistry	Session 17I IS A1 Brech	Session 17J C1 Explanation 1	Session 17K C1 Philosophy of the formal sciences	Session 17L B6 HOPOS 1	Session 17M A2 Paraconsistent, relevant, conditional, and intuitionistic logics 1
09:30														
10:00														
10:30	10:30–11:00 Coffee break													
11:00	Session 18A A1 SYMP Some recent directions in model theory 2 (clmpsmo-2)	Session 18B B6 SYMP Bolzano's mathematics and the general methodology of the sciences 2 (BMMS-2)	Session 18C B1 SYMP What method for conceptual engineering 2 (MEt4CE-2)	Session 18D C1 SYMP Styles in mathematics 1 (SIM-1)	Session 18E IS C3 Leonelli	Session 18F C7 Economic method 2		Session 18G B4 Realism 2	Session 18H C5 Philosophy of the cognitive and behavioral sciences	Session 18I C4 New approaches to illness and health	Session 18J C2 Explanation 2	Session 18K B2 Game-theory, probability, social choice 1	Session 18L B6 HOPOS 2	Session 18M A2 Paraconsistent, relevant, conditional, and intuitionistic logics 2
11:30														
12:00														
12:30	12:30–14:00 Lunch break													
14:00	Session 19A A1 clmpsmo-3	Session 19B B6 SYMP Bolzano's mathematics 3 (BMMS-3)	Session 19C B1 SYMP MEt4CE-3	Session 19D C1 SYMP Styles in mathematics 2 (SIM-2)	Session 19E IS C4 Broadbent	Session 19F SYMP Theories and formalization 1 (SILFS-1)		Session 19G B4 Realism 3	Session 19H B4 Metaphysical aspects: Structure 1	Session 19I C2 SYMP Particles, fields, or both? 1 (PFB-1)	Session 19J B1 Explanation 3	Session 19K A1 Mathematical logic 2: General logic 1	Session 19L B6 &HPS 1	Session 19M B2 Induction
14:30														
15:00	Session 20A C1 Philosophy of the formal sciences	Session 20B B6 SYMP Bolz.'s mathematics 4 (BMMS-4)	Session 20C B1 SYMP MEt4CE-4	Session 20D C1 SYMP Styles in mathematics 3 (SIM-3)	Session 20E IS B5 Chimakonam	Session 20F C3 History and philosophy of the life sciences 3		Session 20G B4 Realism 4	Session 20H B4 Metaphysical aspects: Structure 2	Session 20I C2 SYMP Particles, fields, or both? 2 (PFB-2)	Session 20J B1 Explanation 4	Session 20K A1 Mathematical logic 3: General logic 2	Session 20L B6 &HPS 2	Session 20M SYMP Theories and formalization 2 (SILFS-2)
15:30														
16:00	16:15–16:45 Coffee break													
16:30														
17:00														
17:30	16:45–18:15 Plenary 2 Heather Douglas													
18:00														
18:30														
19:00														
19:30	18:30–20:30 General assembly of the DLMPST													
20:00														
20:30														

Thu, 8th

Thu, 8th



**Room 364****Session 17A****A1 SYMP Some recent directions in model theory 1 (clmpsmod-1)***Chair: John Baldwin*

09:00

*James Freitag*

Some recent applications of model theory

A1

09:30

*Tibor Beke*

Feasible syntax, feasible proofs, and feasible interpretations

A3

10:00

*Cameron Hill*

Towards a characterization of pseudo-finiteness

A1

**Room Janák****Session 17B****B6 SYMP Bolzano's mathematics and the general methodology of the sciences 1 (BMMS-1). Concepts and methodology***Chair: Steve Russ*

09:00

*Michael Otte*

Bolzano, Kant and the evolution of the concept of concept

B6

09:30

*Arianna Betti and Annapaola Ginammi*  
Bolzano's theory of ground and consequence and the traditional theory of concepts

B6

10:00

*Paola Cantu*

Bolzano's requirement of a correct ordering of concepts and its inheritance in modern axiomatics

B6

**Room 152+153****Session 17C****B1 SYMP What method for conceptual engineering 1 (MET4CE-1)***Chair: Manuel Gustavo Isaac*

09:00

*Manuel Gustavo Isaac*

Broad-spectrum conceptual engineering

B1, C5

09:30

*Joey Pollock*

Conceptual engineering and semantic control

B1

10:00

*Steffen Koch*

On two kinds of conceptual engineering and their methodological counterparts

B1

9:00–10:30

### Room 250

#### Session 17D

**C3 Organisms: Constitutions, self-regulation and situated models**

*Chair: Martin Zach*

09:00

*Javier González de Prado and Cristian Saborido*

Organizational etiological teleology: A selected-effect approach to biological self-regulation

C3

09:30

*Rachel Ankeny and Sabina Leonelli*

Organisms as situated models

C3

### Room 343

#### Session 17E

**C1 Mathematics and ideology**

*Chair: Pavel Arazim*

09:00

*Tatiana Levina*

In defense of abstractions: Sofia Yanovskaya between ideology and cybernetics

A4, B5, C1

09:30

*András Máté*

Lakatos' philosophy of mathematics and "political ideologies"

C1

### Room 201

#### Session 17F

**C7 Economic method 1**

*Chair: Sina Badiei*

09:00

*María Caamaño*

Pseudoscience within science? The case of economics

C7

09:30

*Sofía Blanco Sequeiros*

External validity and field experiments in economics

C7

10:00

*Ricardo Crespo*

Economic sciences and their disciplinary links

C7

### Room 202

#### Session 17G

**B4 Realism 1**

*Chair: Dan Gabriel Simbotin*

09:00

*Matthias Egg*

Scientific metaphysics and the manifest image

B4, B6, C2

09:30

*Chunling Yan*

Underdetermination and empirical

9:00–10:30

equivalence: The standard interpretation and Bohmian mechanics

B4

### Room 346

#### Session 17H

**C2 Ontology in physics and chemistry**

*Chair: Ave Mets*

09:00

*Tina Wachter*

Can conventionalism save the identity of indiscernibles?

B4, C2

09:30

*Sho Fujita*

Spacetime and fundamental parts

C2

### Room Krejcar

#### Session 17I

**A1 Invited speaker**

*Chair: Carles Noguera*

09:00

*Christina Brech*

Indiscernibility and rigidity in Banach spaces

### Room 301

#### Session 17J

**C1 Explanation 1**

*Chair: Lilia Gurova*

09:00

*Matteo De Benedetto*

Explicating 'explication' via conceptual spaces

B2, C1

09:30

*Vladimir Drekalović*

New versions of the mathematical explanation of the cicada case – ad hoc improvements with uncertain outcomes or the way to a full explanation?

C1

10:00

*Nathaniel Gan*

Explanation and ontology

B4, C1

### Room 402

#### Session 17K

**C1 Philosophy of the formal sciences**

*Chair: Eleonora Cresto*

09:00

*Berna Kilinc*

Deterministic and indeterministic situations

B2

09:30

*Josef Mensik*

How are mathematical structures determined

C1

10:00

*Andrea Sereni and Luca Zanetti*

Modelling minimalism and trivialism in the philosophy of mathematics

9:00–10:30

through a notion of conceptual grounding  
C1

### Room 302

#### Session 17L B6 HOPOS 1

Chair: *Jared Neumann*

09:00

*David Stump*  
Poincaré read as a pragmatist  
B6

09:30

*Xiaoming Ren and Xianhua Liang*  
Three ways to understand the inductive thoughts of whewell  
A4, B6

10:00

*Artur Koterski*  
The nascency of Ludwik Fleck's polemics with Tadeusz Bilikiewicz  
B6

### Room 347

#### Session 17M A2 Paraconsistent, relevant, conditional, and intuitionistic logics 1

Chair: *Claudia Tanús*

09:00

*Xunwei Zhou*  
Mutually inverse implication inherits from and improves on material implication  
A2

11:00–12:30

09:30

*José M. Méndez, Gemma Robles and Francisco Salto*  
Expansions of relevant logics with a dual intuitionistic type negation  
A2

10:00

*Gemma Robles*  
Basic quasi-Boolean expansions of relevant logics with a negation of intuitionistic kind  
A2

### 10:30–11:00 Coffee break

### Room 364

#### Session 18A A1 SYMP Some recent directions in model theory 2 (clmpsmod-2)

Chair: *John Baldwin*

11:00

*Rehana Patel*  
Towards a model theory of symmetric probabilistic structures  
A1

11:30

*Jiří Rosický*  
Accessible categories and model theory  
A1

12:00

*Michael Lieberman*  
Tameness, compactness, and cocompleteness  
A1

11:00–12:30

### Room Janák

#### Session 18B B6 SYMP Bolzano's mathematics and the general methodology of the sciences 2 (BMMS-2). The mathematical infinite and other problems

Chair: *Arianna Betti*

11:00

*Johan Blok*  
Did Bolzano solve the eighteenth century problem of problematic mathematical entities?  
B6

11:30

*Kateřina Trlifajová*  
Bernard Bolzano and the part-whole principle for infinite collections  
B6

12:00

*Elías Fuentes-Guillén*  
On Bolzano's early rejection of infinitesimals  
B6

### Room 152+153

#### Session 18C B1 SYMP What method for conceptual engineering 2 (MET4CE-2)

Chair: *Manuel Gustavo Isaac*

11:00

*Delia Belleri*

In defense of a contrastivist approach to evidence statements  
B1

11:30

*Mark Pinder*  
Concepts and replacement: What should the Carnapian model of conceptual re-engineering be?  
B1

12:00

*Moritz Cordes*  
The methodological tradition of explication  
B1

### Room 112+113

#### Session 18D C1 SYMP Styles in mathematics 1 (SIM-1)

Chair: *Karine Chemla*

11:00

*Erich Reck*  
Dedekind, number theory, and methodological structuralism: A matter of style?  
C1

11:30

*Georg Schiemer*  
Structuralism as a mathematical style: Klein, Hilbert, and 19th-century geometry  
C1

12:00

*Jean-Pierre Marquis*

Designing the structuralist style:  
Bourbaki, from Chevalley to Grothendieck  
C1

### Room Krejcar

#### Session 18E C3 Invited speaker

Chair: *Martin Zach*

11:00  
*Sabina Leonelli*  
The shifting semantics of plant (data)  
science

### Room 201

#### Session 18F C7 Economic method 2

Chair: *Ricardo Crespo*

11:00  
*Paul Hoyningen-Huene*  
Do abstract economic models explain?  
C7

11:30  
*Robert Northcott*  
Prediction markets and extrapolation  
B1, B3, C7

### Room 202

#### Session 18G B4 Realism 2

Chair: *Priyedarshi Jetli*

11:00  
*Tim Lyons*  
The reach of Socratic scientific realism:

From axiology of science to axiology  
of exemplary inquiry  
B1, B3, B4, B6, C7, C9

11:30  
*Lisa Zorzato and Antonella Foligno*  
An attempt to defend scientific realism  
B4

12:00  
*Peeter Mürsepp*  
Practical realism and metaphysics in  
science  
B4

### Room 346

#### Session 18H C5 Philosophy of the cognitive and behavioral sciences

Chair: *Amita Chatterjee*

11:00  
*Vladimir Iakovlev*  
Metaphysics and physics of  
consciousness as a problem of modern  
science  
B4

11:30  
*Marc Artiga*  
Doing without structural representations  
C5

### Room 401

#### Session 18I C4 New approaches to illness and health

Chair: *Margarita Vázquez*

11:00  
*Natividad Garrido Rodríguez*  
Intimate diary of an AIDS patient.  
An approximation to the “medical gaze”  
with Foucault and Guibert  
C4

11:30  
*Tina Sikka*  
Food, identity and end of life  
C4, C7

12:00  
*Dominic Murphy*  
Psychology, anthropology and  
delusions  
C7

### Room 301

#### Session 18J C2 Explanation 2

Chair: *Gerhard Schurz*

11:00  
*Christian J. Feldbacher-Escamilla*  
Simplicity in abductive inference  
B1, B2

11:30  
*Susan Vineberg*  
Mathematical depth and explanation  
C1

12:00  
*Lukáš Zámečník*  
Non-causal explanations in quantitative  
linguistics  
C7

### Room 343

#### Session 18K B2 Game-theory, probability, social choice 1

Chair: *Olha Simoroz*

11:00  
*Kevin Kelly, Hanti Lin, Konstantin Genin  
and Jack Parker*  
A learning theoretic argument for  
scientific realism  
B1, B2, B3

11:30  
*Liqian Zhou*  
Mutual misunderstanding in signalling  
games  
B2

12:00  
*Eleonora Cresto*  
A constructivist application of the  
Condorcet jury theorem  
B2, C1, C7

### Room 302

#### Session 18L B6 HOPOS 2

Chair: *Vera Matarese*

11:00  
*Jared Neumann*  
Deductive savages: The Oxford noetics  
on logic and scientific method  
A4, B6

11:00–12:30

14:00–15:00

14:00–15:00

11:30

*Pascale Roure*

Logical empiricism in exile. Hans Reichenbach's research and teaching activities at Istanbul University (1933–1938)

B3, B6, B7, C5, C7

12:00

*Elena Sinelnikova and Vladimir Sobolev*  
V.N. Ivanovsky's conception of science

B6

**Room 347****Session 18M**

**A2 Paraconsistent, relevant, conditional, and intuitionistic logics 2**

*Chair: Cian Guilfoyle Chartier*

11:00

*Thomas Piecha and Peter Schroeder-Heister*

Abstract semantic conditions and the incompleteness of intuitionistic propositional logic with respect to proof-theoretic semantics

A2

11:30

*Yaroslav Shramko*

First-degree entailment and structural reasoning

A2

12:00

*Claudia Tanús*

The irrelevance of the axiom of permutation

A2

12:30–14:00 Lunch break

**Room 364****Session 19A**

**A1 SYMP Some recent directions in model theory 3 (clmpsmod-3)**

*Chair: John Baldwin*

14:00

*Sebastien Vasey*

Forking and categoricity in non-elementary model theory

A1

**Room Janák****Session 19B**

**B6 SYMP Bolzano's mathematics and the general methodology of the sciences 3 (BMMS-3). Mathematical manuscripts**

*Chair: Peter Simons*

14:00

*Davide Crippa, Elias Fuentes Guillén and Jan Makovský*

Bernard Bolzano's 1804 examination: Mathematics and mathematical teaching in early 19th century Bohemia

B6

14:30

*Jan Sebestik*

Looking at Bolzano's mathematical manuscripts

B6

**Room 152+153****Session 19C**

**B1 SYMP What method for conceptual engineering 3 (MET4CE-3)**

*Chair: Manuel Gustavo Isaac*

14:00

*Patrick Allo*

Conceptual engineering in the philosophy of information

B1

14:30

*Georg Brun and Kevin Reuter*

The common-sense notion of truth as a challenge for conceptual re-engineering

B1

**Room 112+113****Session 19D**

**C1 SYMP Styles in mathematics 2 (SIM-2)**

*Chair: Erich Reck*

14:00

*Hourya Benis-Sinaceur*

Granger's Philosophy of Style

C1

14:30

*Karine Chemla*

Comparing the geometric style and algebraic style of establishing equations in China, 11th-13th centuries

C1

**Room Krejcar****Session 19E**

**C4 Invited speaker**

*Chair: Rachel Ankeny*

14:00

*Alexander Broadbent*

The inquiry model of medicine

**Room 201****Session 19F**

**SYMP Theories and formalization 1. Symposium of the Italian Society for Logic and Philosophy of Science (SILFS-1)**

*Chair: Gustavo Cevolani*

14:00

*Barbara Osimani*

A game-theoretic approach to evidence standards in medicine

C1

14:30

*Mirko Tagliaferri*

How to build a computational notion of trust

B2

**Room 202****Session 19G**

**B4 Realism 3**

*Chair: Filip Tvrđý*

14:00

*Yousuf Hasan*

Carnap on the reality of atoms

B1, B4

14:00–15:00

14:30  
*Alberto Cordero*  
Functional ontologies and realism:  
The case of nuclear physics  
B3, B4, C2

**Room 346**

**Session 19H**  
**B4 Metaphysical aspects: Structure 1**  
*Chair: Ave Mets*

14:00  
*Michal Oleksowicz*  
Some philosophical remarks on the  
concept of structure. Case of Ladyman's  
and Heller's view  
B4

14:30  
*Damian Luty*  
Regarding minimal structural  
essentialism in philosophy of spacetime  
B4, C2

**Room 402**

**Session 19I**  
**C2 SYMP Particles, fields, or both? 1**  
(PFB-1)  
*Chair: Christopher Hitchcock*

14:00  
*Mathias Frisch*  
Particles, fields, or both? A reevaluation  
of the Ritz–Einstein debate  
C2

14:30  
*Mario Hubert*  
Good singularities, bad singularities  
C2

**Room 301**

**Session 19J**  
**B1 Explanation 3**  
*Chair: Richard David-Rus*

14:00  
*Arto Mutanen*  
On explanation and unification  
B1

14:30  
*Paul Daniell*  
Equilibrium theory and scientific  
explanation  
B1, C7

**Room 347**

**Session 19K**  
**A1 Mathematical logic 2: General  
logic 1**  
*Chair: Joachim Hertel*

14:00  
*Yong Cheng*  
Some formal and informal  
misunderstandings of Gödel's  
incompleteness theorems  
A1, A4, C1

14:00–15:00

14:30  
*Sourav Tarafder, Benedikt Löwe and  
Robert Passmann*  
Constructing illoyal algebra-valued  
models of set theory  
A1

**Room 302**

**Session 19L**  
**B6 &HPS 1**  
*Chair: Brice Bantegnie*

14:00  
*Hakob Barseghyan and Jamie Shaw*  
Integrating HPS: What's in it for  
a philosopher of science?  
B1, B3, B6

**Room 343**

**Session 19M**  
**B2 Induction**  
*Chair: Holger Andreas*

14:00  
*Jorge Luis Garcia Rodriguez*  
A naturalized globally convergent  
solution to the problem of induction  
B2

14:30  
*Paul Thorn and Gerhard Schurz*  
Meta-inductive prediction based on  
attractivity weighting: Mathematical  
and empirical performance evaluation  
B2

15:15–16:15

**Room 364**

**Session 20A**  
**C1 Philosophy of the formal sciences**  
*Chair: Enrico Brugnami*

15:15  
*Concha Martínez-Vidal and  
Ismael Ordóñez*  
Thin objects and dynamic abstraction  
versus possible structures  
C1

15:45  
*Ludovica Conti*  
Extensionalist explanation and solution  
of Russell's paradox  
C1

**Room Janák**

**Session 20B**  
**B6 SYMP Bolzano's mathematics and  
the general methodology  
of the sciences 4 (BMMS-4).**  
**Kinds of numbers**  
*Chair: Steve Russ*

15:15  
*Anna Bellomo*  
Bolzano's real numbers: sets or sums?  
B6

15:45  
*Peter Simons*  
On the several kinds of number in  
Bolzano  
B6

Thu, 8th

Thu, 8th

**Room 152+153****Session 20C****B1 SYMP What method for conceptual engineering 4 (MET4CE-4)***Chair: Manuel Gustavo Isaac*

15:15

*Lieven Decock*

Varieties of conceptual change:  
The evolution of color concepts  
C5

15:45

*Esa Diaz Leon*

The semantic account of slurs,  
appropriation, and metalinguistic  
negotiations  
B1

**Room 112+113****Session 20D****C1 SYMP Styles in mathematics 3 (SIM-3)***Chair: Erich Reck*

15:15

*Jemma Lorenat*

“Cultured people who have not  
a technical mathematical training”:  
Audience, style, and mathematics  
in *The Monist* (1890–1917)  
C1

15:45

*Dirk Schlimm*

On the “mechanical” style in 19th-century  
logic  
A4, C1

**Room Krejcar****Session 20E****B5 Invited speaker***Chair: Hanne Andersen*

15:15

*Jonathan Chimakonam*

Decolonising scientific knowledge:  
Morality, politics and a new logic

**Room 401****Session 20F****C3 History and philosophy of the life sciences 3***Chair: Martin Zach*

15:15

*Javier Suárez*

Stability of traits as the kind of stability  
that matters among holobionts  
C3

15:45

*Joeri Witteveen*

“Taxonomic freedom” and referential  
practice in biological taxonomy  
C3

**Room 202****Session 20G****B4 Realism 4***Chair: Priyedarshi Jetli*

15:15

*Agnieszka Proszewska*

Is semantic structuralism necessarily

“set-theoretical” structuralism? A case  
of ontic structural realism  
B2

15:45

*Michel Ghins*

Scientific realism and the reality of  
properties  
B4

**Room 346****Session 20H****B4 Metaphysical aspects: Structure 2***Chair: Ave Mets*

15:15

*Haktan Akcin*

Structural modality as the criterion for  
naturalistic involvement in scientific  
metaphysics  
B4

15:45

*Mariusz Maziarz*

Econometric modeling falsifies  
structural realism  
B4, C7

**Room 402****Session 20I****C2 SYMP Particles, fields, or both? 2 (PFB-2)***Chair: Christopher Hitchcock*

15:15

*Dustin Lazarovici*

Why field theories are not theories  
of fields  
C2

15:45

*Charles Sebens*

The fundamentality of fields  
C2

**Room 301****Session 20J****B1 Explanation 4***Chair: Insok Ko*

15:15

*Franziska Reinhard*

Realism and representation  
in model-based explanation  
B1

15:45

*Ludwig Fahrbach*

Is the no-miracles argument an inference  
to the best explanation?  
B1

**Room 347****Session 20K****A1 Mathematical logic 3: General logic 2***Chair: Joachim Hertel*

15:15

*Luis Fernández Moreno*

Rigidity and necessity: The case of  
theoretical identifications  
A2

15:45

*Marek Porwolik*

The axiomatic approach to genidentity according to Z. Augustynek

A2

**Room 302**

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**Session 20L****B6 &HPS 2***Chair: Brice Bantegnie*

15:15

*Bobby Vos*

Integrated HPS? Formal versus historical approaches to philosophy of science

B1, B2

15:45

*Babette Chabout-Combaz*

A philosophy of historiography of the Earth. Metaphor and analogies of “natural body”

B4, B6, C2, C3

**Room 201**

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**Session 20M****SYMP Theories and formalization**

**2. Symposium of the Italian Society for Logic and Philosophy of Science (SILFS-2)**

*Chair: Gustavo Cevolani*

15:15

*Marianna Antonutti Marfori*

Formalisation and proof-theoretic reductions

B2

15:45

*Ivan Chajda, Davide Fazio and Antonio Ledda*

The generalized orthomodularity property: configurations, pastings and completions

B2

**16:15–16:45 Coffee break****Room Kotěra**

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**Plenary 2***Chair: Hasok Chang*

16:45

*Heather Douglas*

Scientific freedom and scientific responsibility

**Room Kotěra**

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**General assembly of the DLMPST**

18:30



Fri, 9th

Friday, 9th August

09:00  
09:30  
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20:00  
21:00

09:00–10:30 Plenary 3 Joel D. Hamkins

10:30–11:00 Coffee break

Session 24A ERC panel	Session 24B A1 SYMP Symposium on higher Baire spaces 1 (SGBS-1)	Session 24C A1 SYMP Proof and translation: Glivenko's theorem 90 years after 1 (Glivenko-1)	Session 24D B1 SYMP From contradiction to defectiveness to pluralism 1 (FCDP-1)	Session 24E IS A2 Goranko	Session 24F C5 Philosophy of the cognitive and behavioral sciences		Session 24G B6 History of science 1	Session 24H C3 Issues in the philosophy of explanation	Session 24I B2 Game theory, probability, social choice 2	Session 24J A3 Formal philosophy	Session 24K C7 Philosophy of the humanities and social sciences	Session 24L A2 Modalities, change and identity 1	Session 24M A2 Semantic analysis of logics and natural language 1
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12:30–14:00 Lunch break

Session 25A IS C2 Halvorson	Session 25B A1 SGBS-2	Session 25C A1 SYMP Proof and translation 2 (Glivenko-2)	Session 25D B1 SYMP From contradiction 2 (FCDP-2)	Session 25E B1/C9 Philosophy of science in practice	Session 25F A2 SYMP Connexive logic 1 (NDCXL-1)		Session 25G B6 History of science 2	Session 25H C3 Sys&net 1	Session 25I B5 Science and society	Session 25J C1 Geometry	Session 25K B2 Game theory, probability, social choice 3	Session 25L A2 Modal 2	Session 25M A2 Semantic analysis of logics and natural language 2
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Session 26A C6 SYMP Philosophy of Big Data 1 (Big Data-1)	Session 26B A1 SYMP SGBS-3	Session 26C A1 SYMP Proof and translation 3 (Glivenko-3)	Session 26D B1 SYMP From contradiction 3 (FCDP-3)		Session 26F A2 SYMP Connexive logic 2 (NDCXL-2)		Session 26G B6 SYMP IYPT-1	Session 26H C3 Und systems and networks 2	Session 26I A3 Modal logic	Session 26J A1 SYMP Found theories 1 (CFT-1)	Session 26K B1 Methodology and praxis	Session 26L A2 Modalities, change and identity 3	Session 26M A2 Semantic analysis of logics and natural language 3
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16:15–16:45 Coffee break

Session 27A C6 SYMP Philosophy of Big Data 2 (Big Data-2)		Session 27C A1 SYMP Proof and translation 4 (Glivenko-4)	Session 27D B1 SYMP From contradiction to defectiveness to pluralism 4 (FCDP-4)	Session 27E B2 Heuristics	Session 27F A2 NDCXL-3		Session 27G B6 SYMP IYPT-2	Session 27H C3 Inf in biology	Session 27I A1 SYMP Commitments of foundational theories 2 (CFT-2)	Session 27J A3 Semantics	Session 27K A1 Mathematical logic 4: Proof theory	Session 27L A2 Modalities, change and identity 4	Session 27M A2 Semantic analysis of logics and natural language 4
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19:30–21:00 Congress dinner

Fri, 9th

Fri, 9th

9:00–10:30

11:00–12:30

**Room Kotěra**

**Plenary 3**

*Chair: Benedikt Löwe*

09:00

*Joel David Hamkins*

Can set-theoretic mereology serve as a foundation of mathematics?

10:30–11:00 Coffee break

**Room Gočár**

**Session 24A**

ERC panel

*Chair: Hanne Andersen*

11:00

**Room 112+113**

**Session 24B**

A1 SYMP Symposium on higher Baire spaces 1 (SGBS-1)

*Chair: Philipp Lücke*

11:00

*Dorottya Sziráki*

The open dihypergraph dichotomy for definable subsets of generalized Baire spaces

A1

11:30

*Radek Honzík*

*The indestructibility of the tree property*

A1

12:00

*Šarka Stejskalová*

Easton's function and the tree property below  $\aleph_{A1}$

**Room 152+153**

**Session 24C**

A1 SYMP Proof and translation: Glivenko's theorem 90 years after 1 (Glivenko-1)

*Chair: Sara Negri*

11:00

*Itala Maria Loffredo D'Ottaviano and Hércules De Araujo Feitosa*

On the historical relevance of Glivenko's translation from classical into intuitionistic logic: Is it conservative and contextual?

A1

11:30

*Sara Negri*

A simple proof of Barr's theorem for infinitary geometric logic

12:00

*Michael Rathjen*

Proof theory of infinite geometric theories

A1

**Room 364**

**Session 24D**

B1 SYMP From contradiction to defectiveness to pluralism 1 (FCDP-1)

*Chair: Maria Del Rosario Martinez Ordaz*

Fri, 9th

Fri, 9th

11:00

*Xavier de Donato-Rodriguez*  
Inconsistency and belief revision  
in cases of approximative reduction  
and idealization

B1

11:30

*Joke Meheus*  
Logic-based ontologies in the biomedical  
domain: From defects to explicit  
contradictions

B1

12:00

*Moises Macias Bustos*  
Lewis, Stalnaker and the problem  
of assertion & defective information  
in the sciences

B1

### Room Krejcar

#### Session 24E

##### A2 Invited speaker

*Chair: Yaroslav Shramko*

11:00

*Valentin Goranko*  
Logic-based strategic reasoning in social  
context

### Room 347

#### Session 24F

##### C5 Philosophy of the cognitive and behavioral sciences

*Chair: Filip Tvrđý*

11:00

*Robert Chis-Ciure and Francesco Ellia*  
Is there a hard problem for the integrated  
information theory of consciousness?

C5

11:30

*Mahi Hardalupas*  
What is “biological” about biologically-  
inspired computational models  
in cognitive science? Implications  
for the multiple realisation debate

C5

12:00

*Regina Fabry*  
Turing redux: An enculturation account  
of calculation and computation

C5, C6

### Room 201

#### Session 24G

##### B6 History of science 1

*Chair: Babette Chabout-Combaz*

11:00

*Jagdish Hattiangadi*  
Inductive method, or the experimental  
philosophy of the Royal Society

B1, B3, B4, B6

11:30

*Davide Pietrini*  
Bilancie giuste a posta per chiarire  
questa verità. The importance  
of instrument in Guidobaldo dal Monte's  
Le mecaniche

B6

### Room 250

#### Session 24H

##### C3 Issues in the philosophy of explanation

*Chair: Pablo Lorenzano*

11:00

*Pablo Lorenzano*  
Laws, causation and explanations  
in classical genetics: A model-theoretic  
account

C3

11:30

*Jinyeong Gim*  
Category theory as a formal language  
of the mechanistic philosophy

C3

12:00

*Gregor Greslehner*  
What is the explanatory role of the  
structure-function relationship  
in immunology?

C3, C4

### Room 343

#### Session 24I

##### B2 Game theory, probability, social choice 2

*Chair: Zuzana Rybaříková*

11:00

*Florian Fischer and Alexander Gebharter*  
Dispositions and causal Bayes nets

B2

11:30

*Alexander Gebharter and Christian  
J. Feldbacher-Escamilla*  
Modeling creative abduction Bayes net  
style

B1, B2

### Room 346

#### Session 24J

##### A3 Formal philosophy

*Chair: Timothy Childers*

11:00

*Adrian Groza*  
Differences of discourse understanding  
between human and software agents

A3

11:30

*Grzegorz Trela*  
Logic as metaphilosophy? Remarks on  
the mutual relations of logic  
and philosophy

A3

12:00

*Joachim Hertel*  
Hypercomputing minds: New numerical  
evidence

A3

### Room 401

#### Session 24K

##### C7 Philosophy of the humanities and social sciences

*Chair: Augustė Dementavičienė*

11:00–12:30

14:00–15:00

14:00–15:00

11:00  
*Saúl Pérez-González*  
 Mechanistic explanations and components of social mechanisms  
 C7

11:30  
*Dafne Muntanyola-Saura*  
 Against reductionism: Naturalistic methods in pragmatic cognitive sociology  
 C7

### Room 301

**Session 24L**  
**A2 Modalities, change and identity 1**  
*Chair: Olha Simoroz*

11:00  
*Syraya Chin-Mu Yang*  
 Higher-order identity in the necessitism-contingentism debate in higher-order modal logic  
 A2

11:30  
*Jui-Lin Lee*  
 Model existence in modal logics  
 A2

### Room 302

**Session 24M**  
**A2 Semantic analysis of logics and natural language 1**  
*Chair: Cian Guilfoyle Chartier*

11:00  
*Andrey Pavlenko*  
 Frege semantics or why can we talk about deflation of false?  
 A2

11:30  
*Pavel Arazim*  
 Are logical expressions ambiguous and why?  
 A2

12:00  
*Mircea Dumitru*  
 New thoughts on compositionality. Contrastive approaches to meaning: Fine's semantic relationism vs. Tarski-style semantics  
 A2

### 12:30–14:00 Lunch break

### Room Krejcar

**Session 25A**  
**C2 Invited speaker**  
*Chair: Mitsuhiro Okada*

14:00  
*Hans Halvorson*  
 How to describe reality objectively: Lessons from Einstein

### Room 112+113

**Session 25B**  
**A1 SYMP Symposium on higher Baire spaces 2 (SGBS-2)**  
*Chair: Philipp Lücke*

14:00  
*Philipp Lücke*  
 Definable bistationary sets  
 A1

### Room 152+153

**Session 25C**  
**A1 SYMP Proof and translation: Glivenko's theorem 90 years after 2 (Glivenko-2)**  
*Chair: Sara Negri*

14:00  
*Luiz Carlos Pereira, Elaine Pimentel and Valeria de Paiva*  
 Ecumenism: A new perspective on the relation between logics  
 A1, A2

14:30  
*Tadeusz Litak*  
 Modal negative translations as a case study in The Big Programme  
 A1

### Room 364

**Session 25D**  
**B1 SYMP From contradiction to defectiveness to pluralism 2 (FCDP-2)**  
*Chair: Maria Del Rosario Martinez Ordaz*

14:00  
*Carolin Antos and Daniel Kuby*  
 Mutually inconsistent set theoretic-universes: An analysis of universist and multiversist strategies  
 B1

14:30  
*Jody Azzouni*  
 Informal rigorous mathematics and its logic  
 A1, A2, B1

### Room 402

**Session 25E**  
**B1/C9 Philosophy of science in practice**  
*Chair: Martin Zach*

14:00  
*Uskali Mäki*  
 Asymmetries in interdisciplinarity  
 B1, B5, C9

14:30  
*Mieke Boon*  
 How scientists are brought back into science – The error of empiricism  
 B1, C8, C9

### Room 250

**Session 25F**  
**A2 SYMP New directions in connexive logic 1 (NDCXL-1)**  
*Chair: Heinrich Wansing*

14:00  
*Niki Pfeifer*  
 Are connexive principles coherent?  
 A2

14:30  
*Luis Estrada-González and Claudia Tanús*

14:00–15:00

Variable sharing principles in connexive logic  
A2

### Room 201

**Session 25G**  
**B6 History of science 2**  
*Chair: Ave Mets*

14:00  
*Alison Peterman*  
Margaret Cavendish on corporeal qualities  
B6

14:30  
*Julita Slipkauskaitė*  
Theory of impetus and its significance to the development of late medieval notions of place  
B4, B6

### Room 202

**Session 25H**  
**C3 Understanding systems and networks in the life sciences 1**  
*Chair: Olha Simoroz*

14:00  
*Flavia Fabris*  
Rethinking cybernetics in philosophy of biology  
C3

### Room 401

**Session 25I**  
**B5 Science and society**  
*Chair: Dragana Bozin*

14:00  
*Eugenio Petrovich*  
Bridging across philosophy of science and scientometrics: Towards an epistemological theory of citations  
B3, B5

14:30  
*Magdalena Malecka*  
Why the behavioural turn in policy takes behavioural science wrong and what it means for its policy relevance  
B5

### Room 346

**Session 25J**  
**C1 Geometry**  
*Chair: Brice Bantegnie*

14:00  
*Piotr Błaszczuk*  
On how Descartes changed the meaning of the Pythagorean theorem  
C1

14:30  
*Philip Ehrlich*  
Are points (necessarily) unextended?  
C1

14:00–15:00

### Room 343

**Session 25K**  
**B2 Game theory, probability, social choice 3**  
*Chair: Igor Sedlár*

14:00  
*Young E Rhee*  
On Howson's Bayesian approach to the old evidence problem  
B2

14:30  
*A. V. Ravishankar Sarma*  
On a structuralist view of theory change: Study of some semantic properties in formal model of belief revision  
B2

### Room 301

**Session 25L**  
**A2 Modalities, change and identity 2**  
*Chair: Joan Bertran-San Millán*

14:00  
*Kordula Świątorzecka and Marcin Łyczak*  
A bimodal logic of change with Leibnizian hypothetical necessity  
A2

### Room 302

**Session 25M**  
**A2 Semantic analysis of logics and natural language 2**  
*Chair: Mircea Dumitru*

15:15–16:15

14:00  
*Peter Simons*  
Leśniewski, lambda, and the problem of defining operators  
A2, A4

14:30  
*Mihai Hîncu*  
Intensionality, reference, and strategic inference  
A2

### Room Janák

**Session 26A**  
**C6 SYMP Philosophy of Big Data 1. Symposium of the History and Philosophy of Computing division of the DLMPST (Big Data-1)**  
*Chair: Giuseppe Primiero*

15:15  
*Wolfgang Pietsch*  
On the epistemology of data science – the rise of a new inductivism  
C6

15:45  
*Domenico Napoletani, Marco Panza and Daniele C. Struppa*  
Finding a way back: Philosophy of data science on its practice  
C6

### Room 112+113

**Session 26B**  
**A1 SYMP Symposium on higher Baire spaces 3 (SGBS-3)**  
*Chair: Philipp Lücke*

Fri, 9th

Fri, 9th

15:15

*Wolfgang Wohofsky*

Can we add kappa-dominating reals without adding kappa-Cohen reals?

A1

15:45

*Lorenzo Galeotti*

Higher metrisability in higher descriptive set theory

A1

**Room 152+153****Session 26C****A1 SYMP Proof and translation: Glivenko's theorem 90 years after 3 (Glivenko-3)***Chair: Sara Negri*

15:15

*Ulrich Berger*

On the constructive content of proofs in abstract analysis

A1

15:45

*Monika Seisenberger*

Program optimisation through proof transformation

A1

**Room 364****Session 26D****B1 SYMP From contradiction to defectiveness to pluralism 3 (FCDP-3)***Chair: Maria Del Rosario Martinez Ordaz*

15:15

*Diderik Batens*

Handling of defectiveness in a content-guided manner

B1

15:45

*Martin Brown*Chunk and permeate: Reasoning *faute de mieux*

B1

**Room 250****Session 26F****A2 SYMP New directions in connexive logic 2 (NDCXL-2)***Chair: Heinrich Wansing*

15:15

*Andreas Kapsner*

Connexivity and conditional logic

A2

15:45

*Hitoshi Omori*

Towards a bridge over two approaches in connexive logic

A2

**Room 201****Session 26G****B6 SYMP International year of the periodic table 1 (IYPT-1)***Chair: Gisela Boeck*

15:15

*Hasok Chang*

Why should philosophers care about the periodic table?

B6, C2

15:45

*Soňa Štrbářová*

Mendeleev's dedicated supporter and friend. The Czech chemist Bohuslav Brauner and the worldwide reception of the periodic system

B6, C2

**Room 202****Session 26H****C3 Understanding systems and networks in the life sciences 2***Chair: Pavel Arazim*

15:15

*Yukinori Onishi*

Does research with deep neural networks provide a new insight to the aim of science debate?

B1

15:45

*Shimin Zhao*

Process, not just product: The case of network motifs analysis

C3, C9

**Room 346****Session 26I****A3 Modal logic***Chair: Priyedarshi Jetli*

15:15

*Susumu Yamasaki*

Multi-modal mu-calculus with postfix modal operator abstracting actions

A3, C1, C6

15:45

*Francisco Martínez Herrera*

Dialogical justification logic. A basic approach

A1, A3

**Room 343****Session 26J****A1 SYMP Commitments of foundational theories 1 (CFT-1)***Chair: Mateusz Łełyk*

15:15

*Cezary Cieslinski*

Commitments of foundational theories: Introduction

A1

15:45

*Mateusz Łełyk*

The contour of the Tarski Boundary

A1

**Room 401****Session 26K****B1 Methodology and praxis***Chair: Julia Bursten*

15:15

*John Huss*

Tool-driven science

B1, B3, C3, C4, C9

15:15–16:15

15:45  
*László Ropolyi*  
 Technoscience and philoscience  
 B1, C8

### Room 301

#### Session 26L A2 Modalities, change and identity 3

Chair: *Igor Sedlár*

15:15  
*Mirko Engler*  
 Generalized interpretability and  
 conceptual reduction of theories  
 A1, B2, B4, C1

15:45  
*Mateusz Radzki*  
 The Tarski equipollence of axiom  
 systems  
 A1

### Room 302

#### Session 26M A2 Semantic analysis of logics and natural language 3

Chair: *Olha Simoroz*

15:15  
*Sebastian G.W. Speitel*  
 A notion of semantic uniqueness  
 for logical constants  
 A2

15:45  
*Juan Redmond and  
 Rodrigo Lopez-Orellana*

16:45–18:15

Classical logic and schizophrenia:  
 For a neutral game semantics  
 A2

### 16:15–16:45 Coffee break

### Room Janák

#### Session 27A C6 SYMP Philosophy of Big Data 2. Symposium of the History and Philosophy of Computing division of the DLMPST (Big Data-2)

Chair: *Giuseppe Primiero*

16:45  
*Sabina Leonelli*  
 Semantic interoperability: The oldest  
 challenge and newest frontier of big data  
 C6

17:15  
*Helena Kossowska*  
 Big data in life sciences  
 C6

17:45  
*Jens Ulrik Hansen*  
 Philosophizing on big data, data science,  
 and AI  
 C6

### Room 152+153

#### Session 27C A1 SYMP Proof and translation: Glivenko's theorem 90 years after 4 (Glivenko-4)

Chair: *Sara Negri*

16:45–18:15

16:45  
*Daniel Wessel*  
 Ideals, idealization, and a hybrid concept  
 of entailment relation  
 A1

17:15  
*Peter Schuster, Giulio Fellin and Daniel  
 Wessel*  
 The Jacobson radical and Glivenko's  
 theorem  
 A1

### Room 364

#### Session 27D B1 SYMP From contradiction to defectiveness to pluralism 4 (FCDP-4)

Chair: *Otávio Bueno*

16:45  
*Michèle Friend*  
 Disturbing truth  
 B1

17:15  
*Jonas Becker Arenhart and Décio  
 Krause*  
 Quasi-truth and defective situations  
 in science  
 B1

17:45  
*Maria Del Rosario Martinez Ordaz  
 and Otávio Bueno*  
 Making sense of defective information:  
 Partiality and big data in astrophysics  
 B1

### Room 401

#### Session 27E B2 Heuristics

Chair: *Joan Bertran-San Millán*

16:45  
*Sofia Almpani, Petros Stefanias  
 and Ioannis Vandoulakis*  
 On the significance of argumentation  
 in discovery proof-events  
 B2

17:15  
*Peter Vojtas and Michal Vojtas*  
 Problem reduction as a general  
 epistemic reasoning method  
 B2

### Room 250

#### Session 27F A2 SYMP New directions in connexive logic 3 (NDCXL-3)

Chair: *Heinrich Wansing*

16:45  
*Claudio E.A. Pizzi*  
 Tableaux procedures for logics  
 of consequential implication  
 A2

### Room 201

#### Session 27G B6 SYMP International year of the periodic table 2 (IYPT-2)

Chair: *Gisela Boeck*



16:45

*Sarah Hijmans*

Understanding the chemical element:  
A reflection on the importance of the  
periodic table

B6, C2

17:15

*Karoliina Pulkkinen*

Values in science and early periodic  
tables

B6, C2

**Room 202****Session 27H****C3 Information in biology***Chair: Shunkichi Matsumoto*

16:45

*María Ferreira Ruiz*

Parity claims in biology and a dilemma  
for informational parity

C3

**Room 343****Session 27I****A1 SYMP Commitments of foundational theories 2 (CFT-2)***Chair: Mateusz Łełyk*

16:45

*Ali Enayat*

Feasible reducibility and interpretability  
of truth theories

A1

17:15

*Bartosz Wcisło*

Models of truth theories

A1

17:45

*Michał Tomasz Godziszewski*

Some semantic properties of typed  
axiomatic truth theories built over theory  
of sets

A1

**Room 346****Session 27J****A3 Semantics***Chair: Delia Belleri*

16:45

*Mario Günther*

Learning subjunctive conditional  
information

A2, A3, B2, C5

17:15

*Sergey Ospichev and Denis Ponomaryov*

On the complexity of formulas  
in semantic programming

A3

17:45

*Marie Duží*

Hyperintensions as abstract procedures

A3

**Room 347****Session 27K****A1 Mathematical logic 4: Proof theory***Chair: Elisángela Ramírez-Cámara*

16:45

*Marta Fiori Carones*

A theorem of ordinary mathematics  
equivalent to ADS

A1

17:15

*Ricardo Arturo Nicolás-Francisco*

A non-trivial extension for Ms

A1, A3

**Room 301****Session 27L****A2 Modalities, change and identity 4***Chair: Karel Šebela*

16:45

*Sara Negri and Edi Pavlovic*

DSTIT modalities through labelled  
sequent calculus

A2

17:15

*Mahfuz Rahman Ansari and Avr Sarma*

Counterfactuals and reasoning about  
action

A2

17:45

*Ionel Narita*

Logic of scales

A2

**Room 302****Session 27M****A2 Semantic analysis of logics and natural language 4***Chair: Giulia Battilotti*

16:45

*Pietro Galliani*

What is it like to be first order? Lessons  
from compositionality, teams and games

A2

17:15

*Ivo Pezlar*

Analysis of incorrect proofs

A2

**Plzeňská restaurant – Municipal House**

19:30

**Congress dinner**



Saturday, 10th August

09:00	Session 28A C6 SYMP IdCFAS-1	Session 28B B1/B5 SYMP Science as a profession 1 (WEBPROVOC-1)	Session 28C C1 SYMP Formalism 1 (FFIUM-1)	Session 28D A2 SYMP Substructural epistemology 1 (SubStrE-1)	Session 28E IS A1 Malliaris	Session 28F Journal panel		Session 28G C3 Philosophy of neuroscience	Session 28H A4 History and philosophy of traditional logic 1	Session 28I C3 Philosophy of evolution	Session 28J B3 SYMP Com- munication and exchanges among scientific cultures 1 (CESC-1)	Session 28K B4 Time	Session 28L C5 Philosophy of the cog and be- havioral sciences	Session 28M A2 Many-valued and probability logics 1
09:30														
10:00	10:30–11:00 Coffee break													
10:30														
11:00	Session 29A C6 SYMP IdCFAS-2	Session 29B B1/B5 SYMP Science as a profession 2 (WEBPROVOC-2)	Session 29C C1 SYMP Formalism 2 (FFIUM-2)	Session 29D A2 SYMP Substructural epistemology 2 (SubStrE-2)	Session 29E IS C5 Sullivan	Session 29F Teaching panel		Session 29G B3 SYMP CESC-2		Session 29I C3 Evolution and explanation	Session 29J A1 Model theory	Session 29K A4 History and philosophy of traditional logic 2	Session 29L C2 Relativity and spacetime	Session 29M A2 Many-valued and probability logics 2
11:30														
12:00	12:30–14:00 Lunch break													
12:30														
14:00	Session 30A A1/A4/B1 C1 Baldwin's mod theory 1 (Baldwin-1)	Session 30B B1/B5 WEBPROVOC-3	Session 30C C1 SYMP Formalism 3 (FFIUM-3)	Session 30D C4 SYMP EAIBS-1	Session 30E IS A2 Wansing	Session 30F C1 SYMP TRLBPS-1		Session 30G B3 SYMP CESC-3	Session 30H B4 Met iss	Session 30I C3 Life sci	Session 30J A3 Epistemic and philosophical logic	Session 30K C2 Interpretation of quantum physics 1	Session 30L C5 Phil of the cog and behavioral sciences	Session 30M C1 Formal philsci and formal epistemology
14:30														
15:00	Session 31A A1/A4/B1/C1 Baldwin-2		Session 31C C1 Philosophy of the formal sciences	Session 31D C4 SYMP EAIBS-2		Session 31F TRLBPS-2		Session 31G B3 SYMP CESC-4	Session 31H C2 Philosophy of the physical and chemical sciences	Session 31I C3 Historical issu- es in evolutionary thinking		Session 31K C2 Interpretation of quantum physics 2	Session 31L C5 Cog&beh sci	Session 31M A1 Mathematical logic 5
15:30														
16:00	16:15–16:45 Coffee break													
16:30	16:45–18:15 Closing ceremony													
17:00														
17:30														
18:00														
20:00	20:00–00:00 Closing party													
00:00														

**Room 402****Session 28A**

**C6 SYMP Identity in computational formal and applied systems 1. HaPoC Symposium (IdCFAS-1)**

*Chair: Raymond Turner*

09:00

*Ansten Klev*

Definitional identity in arithmetic

A2, A3, C6, C8

09:30

*Luca Tranchini and Alberto Naibo*

Harmony, stability, and the intensional

account of proof-theoretic semantics

A2, A3, C6, C8

**Room 401****Session 28B**

**B1/B5 SYMP Science as a profession and vocation. On STS's interdisciplinary crossroads 1 (WEBPROVOC-1)**

*Chair: Ilya Kasavin*

09:00

*Ilya Kasavin*

The scientist's dilemma: After Weber

B1, B5

09:30

*Svetlana Shibarshina*

Scientists' social responsibilities in the context of science communication

B1, B5

10:00

*Liana Tukhvatulina*

Scientist as an expert: Breaking the ivory tower

B1, B5

**Room 112+113****Session 28C**

**C1 SYMP Formalism, formalization, intuition and understanding in mathematics: From informal practice to formal systems and back again 1 (FFIUM-1)**

*Chair: Gerhard Heinzmann*

09:00

*Marco Panza*

Formalisation and understanding in mathematics

C1

09:30

*Marco Buzzoni*

Mathematical vs. empirical thought experiments: Between informal mathematics and formalization

C1

10:00

*Michael Andrew Moshier*

The independence of excluded middle from double negation via topological duality

C1

**Room 364****Session 28D**

**A2 SYMP Substructural epistemology 1 (SubStrE-1)**

*Chair: Ondrej Majer*

09:00

*Marta Bílková*  
Common belief logics based  
on information  
A2

09:30

*Ondrej Majer, Dominik Klein  
and Soroush Rafiee Rad*  
Non-classical probabilities over  
Dunn Belnap logic  
A2

10:00

*Zoé Christoff, Olivier Roy and Norbert  
Gratzl*  
Priority merge and intersection  
modalities  
A2

### Room Krejcar

#### Session 28E

##### A1 Invited speaker

*Chair: Christina Brech*

09:00

*Maryanthe Malliaris*  
Complexity and model theory

### Room Gočár

#### Session 28F

##### Journal panel

*Chair: Hanne Andersen*

### Room 250

#### Session 28G

##### C3 Philosophy of neuroscience

*Chair: Konrad Rudnicki*

09:00

*Henk De Regt, Linda Holland and  
Benjamin Drukarch*  
Modeling in neuroscience: Can complete  
and accurate understanding of nerve  
impulse propagation be achieved?  
C3

09:30

*Karen Yan*  
Understanding Causal Reasoning  
in Neurophysiology  
C3

### Room 301

#### Session 28H

##### A4 History and philosophy of traditional logic 1

*Chair: Gabriela Besler*

09:00

*Farrukh Khudoydodov*  
Similarities and differences in the logic  
of Aristotle and Avicenna  
A4

09:30

*Karel Šebela*  
Sortal interpretation of Aristotelian Logic  
A4

10:00

*Ioannis Vandoulakis*

Pythagorean arithmetic as a model for  
Parmenidean semantics  
A4

### Room 201

#### Session 28I

##### C3 Philosophy of evolution

*Chair: Sophie Juliane Veigl*

09:00

*Adrian Stencel*  
Fitness incommensurability and  
evolutionary transitions in individuality  
C3

09:30

*David Villena Saldaña*  
Theoretical and methodological  
differences in the evolutionary analysis  
of human behavior  
C3, C5

### Room 152+153

#### Session 28J

##### B3 SYMP Communication and exchanges among scientific cultures 1 (CESC-1). Sharing, recycling, trading, and other forms of circulation

*Chair: Nina Atanasova*

09:00

*Madeline Muntersbjorn*  
Notations & translations as catalysts of  
conceptual change  
B3

09:30

*Xiaohan Zhou*  
Elements of continuity in the circulation  
of mathematical knowledge and  
practices in chapter “Measures  
in Square” in mathematical  
writings in China  
B3

10:00

*Nicolas Michel*  
Avatars of generality: On the circulation  
and transformation of list-making  
practices in the context of enumerative  
geometry  
B3, B6, C1

### Room 302

#### Session 28K

##### B4/C2 Time

*Chair: Delia Belleri*

09:00

*Cristian López*  
What time symmetry can (and cannot)  
tell us about time’s structure  
C2

09:30

*Tatiana Denisova*  
Metaphysical issues in modern  
philosophy of time: V. I. Vernadsky’s idea  
of “cause” of time (“source” of time)  
B4

10:00

*Lars-Göran Johansson*  
The direction of time  
C2

9:00–10:30

11:00–12:30

11:00–12:30

**Room 202****Session 28L**  
**C5 Philosophy of the cognitive and behavioral sciences***Chair: Juraj Hvorecký*

09:00

*Paula Quinon and Peter Gardenfors*  
Situated counting

C5, C6

09:30

*Valentin Bazhanov and Tatyana Shevchenko*  
Numerical cognition in the perspective of the Kantian program in modern neuroscience  
C5**Room 346****Session 28M**  
**A2 Many-valued and probability logics 1***Chair: Enrico Brugnamì*

09:00

*Pawel Pawlowski and Rafal Urbaniak*  
Combining truth values with provability values: A non-deterministic logic of informal provability  
A2

09:30

*Matthew Parker*  
Comparative infinite lottery logic  
A2, B2, C1, C2

10:00

*Sergey Pavlov*On conditions of inference in many-valued logic semantics of  $CL_2$   
A2**10:30–11:00 Coffee break****Room 402****Session 29A**  
**C6 SYMP Identity in computational formal and applied systems 2. HaPoC Symposium (IdCFAS-2)***Chair: Raymond Turner*

11:00

*Nicola Angius and Giuseppe Primiero*  
Second order properties of copied computational artefacts  
A2, A3, C6, C8

11:30

*Roberta Ferrario*  
Organisations and variable embodiments  
A2, A3, C6, C8**Room 401****Session 29B**  
**B1/B5 SYMP Science as a profession and vocation. On STS's interdisciplinary crossroads 2 (WEBPROVOC-2)***Chair: Ilya Kasavin*

11:00

*Alexander Antonovskiy*  
Max Weber's distinction truth/value and "Old-European" semantics  
B1, B5

11:30

*Anton Dolmatov*  
Moral achievement of a scientist  
B1, B5

12:00

*Lada Shipovalova*  
M. Weber's "inconvenient facts" and contemporary studies of science-society communication  
B1, B5**Room 112+113****Session 29C**  
**C1 SYMP Formalism, formalization, intuition and understanding in mathematics: From informal practice to formal systems and back again 2 (FFIUM-2)***Chair: Gerhard Heinzmann*

11:00

*Alberto Naibo*  
A formalization of logic and proofs in Euclid's geometry  
C1

11:30

*Mate Szabo and Patrick Walsh*  
Gödel's and Post's proofs of incompleteness  
C1

12:00

*Pierre Wagner*  
Gödel and Carnap on the impact of incompleteness on formalization and understanding  
C1**Room 364****Session 29D**  
**A2 SYMP Substructural epistemology 2 (SubStrE-2)***Chair: Ondřej Majer*

11:00

*Vít Punčochář*  
Algebraic semantics for inquisitive logics  
A2

11:30

*Igor Sedlár*  
Substructural propositional dynamic logic  
A2, A3

12:00

*Andrew Tedder and Igor Sedlar*  
Residuals and conjugates in positive substructural logic  
A2**Room Krejcar****Session 29E**  
**C5 Invited speaker***Chair: Mitsuhiro Okada*

11:00

*Jacqueline Sullivan*  
Creating epistemically successful interdisciplinary research infrastructures: Translational cognitive neuroscience as a case study

**Room 250****Session 29F**  
**Teaching panel***Chair: Joeri Witteveen*

11:00

**Room 152+153****Session 29G**  
**B3 SYMP Communication and exchanges among scientific cultures 2 (CESC-2). Circulation of epistemological elements***Chair: Vitaly Pronskikh*

11:00

*Xiaofei Wang*

The circulation of epistemic values between mathematical cultures: The epistemic values pursued by J.-L. Lagrange in his teaching of analysis at the Ecole Polytechnique

B3

11:30

*François Lê*

Characterizing as a cultural system the organization of mathematical knowledge: a case study from the history of mathematics

B1, B3, C1

**Room 201****Session 29I**  
**C3 Evolution and explanation***Chair: Brice Bantegnie*

11:00

*Rodrigo Lopez-Orellana and David Cortés-García*

A scientific-understanding approach to evo-devo models

C3

11:30

*Thomas Reydon*

How do evolutionary explanations explain?

B4, C3

**Room 347****Session 29J**  
**A1 Model theory***Chair: Elisángela Ramírez-Cámara*

11:00

*Ziv Shami*

On the forking topology of a reduct of a simple theory

A1

11:30

*Yiannis Kiouvrekis*

Remarks on abstract logical topologies: An institutional approach.

A1, A3

**Room 301****Session 29K**  
**A4 History and philosophy of traditional logic 2***Chair: Gabriela Besler*

11:00

*Jari Palomäki*

The intensional and conceptual content of concepts

A4

11:30

*Yusuf Dasdemir*

Reception of absolute propositions in the Avicennian tradition: Ibn Sahlān al-Sāwī on the discussions of the contradiction and conversion of absolute propositions

A4

**Room 302****Session 29L**  
**C2 Relativity and spacetime***Chair: Ladislav Kvasz*

11:00

*Lorenzo Cocco and Joshua Babic*

Theoretical equivalence and special relativity

B2, C2

11:30

*Pablo Acuña*

Dynamics and chronogeometry in spacetime theories

C2

12:00

*Noah Stemeroff*

Symmetry, general relativity, and the laws of nature

C1, C2

**Room 346****Session 29M**  
**A2 Many-valued and probability logics 2***Chair: Zuzana Rybaříková*

11:00

*Adam Edwards*

Seeing and doing, or, why we should all be only half-Bayesian

A2, B1, B2, B4, C1, C9

11:30

*Luca San Mauro*

Inductive inference and structures: How to learn equality in the limit

A1, A2, B2

**12:30–14:00 Lunch break****Room 364****Session 30A**  
**A1/A4/B1/C1 SYMP Symposium on John Baldwin's Model Theory and the Philosophy of Mathematical Practice 1 (Baldwin-1)***Chair: Juliette Kennedy*

14:00

*Juliette Kennedy*  
Introduction

14:30

*Andrew Arana*

Comments on John Baldwin's Model Theory and the Philosophy of Mathematical Practice



**Room 401****Session 30B**

B1/B5 SYMP Science as a profession and vocation. On STS's interdisciplinary crossroads 3 (WEBPROVOC-3)

Chair: *Ilya Kasavin*

14:00

*Elena Chebotareva*

An engineer: Bridging the gap between mechanisms and values

B1, B5

14:30

*Tatiana Sokolova*

What's in a name? To the history of a 'scientist'

B6

**Room 112+113****Session 30C**

C1 SYMP Formalism, formalization, intuition and understanding in mathematics: From informal practice to formal systems and back again 3 (FFIUM-3)

Chair: *Gerhard Heinzmann*

14:00

*Silvia De Toffoli*

The epistemic basing relation in mathematics

C1

14:30

*Benedict Eastaugh and Marianna Antonutti Marfori*

Epistemic aspects of reverse mathematics

C1

**Room 346****Session 30D**

C4 SYMP Epistemic and ethical innovations in biomedical sciences 1 (EAIBS-1)

Chair: *David Casacuberta*

14:00

*Alger Sans*

The incompleteness of explanatory models of abduction in diagnosis:

The case of mental disorders

C4

14:30

*Angel Puyol*

Solidarity and regulatory frameworks in (medical) big data

B5, C4

**Room Krejcar****Session 30E**

A2 Invited speaker

Chair: *Yaroslav Shramko*

*Heinrich Wansing and Sergey*

*Drobyshevich*

Proof systems for various FDE-based modal logics

**Room 250****Session 30F**

C1 SYMP Toward the reconstruction of linkage between Bayesian philosophy and statistics 1 (TRLBPS-1)

Chair: *Masahiro Matsuo*

14:00

*Kazutaka Takahashi*

Examination of the linkage between Bayesian philosophy and statistics from a logical point of view

C1

14:30

*Masahiro Matsuo*

Constructing a complimentary relation between Bayesian philosophy and statistics

C1

**Room 152+153****Session 30G**

B3 SYMP Communication and exchanges among scientific cultures 3 (CESC-3). Practices of communication

Chair: *Peeter Mürsepp*

14:00

*Galina Sorina and Irina Griftsova*

The alienated/subjective character of scientific communication

B3

14:30

*Polina Petrukhina and Vitaly Pronskikh*

High-energy physics cultures during

the Cold War: Between exchanges and translations

B3

**Room 302****Session 30H**

B4 Metaphysical issues in the philosophy of science

Chair: *Pablo Vera Vega*

14:00

*Nikolay Milkov*

Towards an analytic scientific metaphysics

B4

**Room 201****Session 30I**

C3 Philosophy of the life sciences

Chair: *Grzegorz Trela*

14:00

*Michal Hladky*

Mapping vs. representational accounts of models and simulations

B1, B2, C3

**Room 301****Session 30J**

A3 Epistemic and philosophical logic

Chair: *Nadiia Kozachenko*

14:00

*Oliver Kutz and Nicolas Troquard*

A logic for an agentive naïve proto-physics

A3

14:00–15:00

15:15–16:15

15:15–16:15

14:30  
*Daniel Álvarez Domínguez*  
Splicing logics: How to combine hybrid and epistemic logic to formalize human reasoning  
A2, A3

**Room 402**

**Session 30K**  
**C2 Interpretation of quantum physics 1**  
*Chair: Giulia Battilotti*

14:00  
*Sebastian Fortin, Jesús A. Jaimes Arriaga and Hernán Accorinti*  
About the world described by quantum chemistry  
C2

14:30  
*Vladislav Terekhov*  
Does the reality of the wave function follow from the possibility of its manipulation?  
C2

**Room 202**

**Session 30L**  
**C5 Philosophy of the cognitive and behavioral sciences**  
*Chair: Olha Simoroz*

14:00  
*Nina Atanasova*  
Eliminating pain  
C5

14:30  
*Andrea Guardo*  
The privilege problem for semantic dispositionalism  
C5

**Room 347**

**Session 30M**  
**C1 Formal philosophy of science and formal epistemology**  
*Chair: Marta Bílková*

14:00  
*Leander Vignero*  
A computational pragmatics for weaseling  
B2, C5

14:30  
*Yuki Ozaki*  
Sensory perception constructed in terms of Carnap's inductive logic: Developing philosophy of computational modeling of perception  
A3, B2, C5

**Room 364**

**Session 31A**  
**A1/A4/B1/C1 SYMP Symposium on John Baldwin's Model Theory and the Philosophy of Mathematical Practice 2 (Baldwin-2)**  
*Chair: Juliette Kennedy*

15:15  
*M. Malliaris*  
Should a mathematician read this book?  
A1

15:45  
*John Baldwin*  
Mathematical and philosophical problems arising in the context of the book  
A1, A4, C1

**Room 112+113**

**Session 31C**  
**C1 Philosophy of the formal sciences**  
*Chair: Priyedarshi Jetli*

15:15  
*Sakiko Yamasaki*  
What is the common conceptual basis of Gödel embedding and Girard embedding?  
C1

**Room 346**

**Session 31D**  
**C4 SYMP Epistemic and ethical innovations in biomedical sciences 2 (EAIBS-2)**  
*Chair: David Casacuberta*

15:15  
*David Casacuberta*  
Innovative tools for reaching agreements in ethical and epistemic problems in biosciences  
C4

15:45  
*Anna Estany*  
Design epistemology as innovation in biomedical research  
C4

**Room 250**

**Session 31F**  
**C1 SYMP Toward the reconstruction of linkage between Bayesian philosophy and statistics 2 (TRLBPS-2)**  
*Chair: Masahiro Matsuo*

15:15  
*Ohkubo Yusaku*  
Revisiting the two major statistical problems, stopping-rule and the catch-all hypothesis, from the viewpoint of neo-Bayesian statistics.  
C1

15:45  
*Kenichiro Shimatani*  
The linkage between Bayesian and frequentism statistics is easier than between Bayesian statistics and philosophy  
C1

**Room 152+153**

**Session 31G**  
**B3 SYMP Communication and exchanges among scientific cultures 4 (CESC-4). Comparing modes of recycling**  
*Chair: Karine Chemla*

15:15  
*Fanglei Zheng*  
When Arabic algebraic problems met Euclidean norms in the 13th century – A case study on the scientific innovation

by the transformation in cross-cultural transmission

B3

15:45

*Michael Barany*

Experts and expertise in north-south circulation in mid-twentieth century mathematics

B6, C1

### Room 302

#### Session 31H

**C2 Philosophy of the physical and chemical sciences**

*Chair: Ave Mets*

15:15

*Michele Ginammi*

Applicability problems generalized

B1, C2

15:45

*Martin King*

Towards the reconciliation of confirmation assessments

B2, B3, C2

### Room 201

#### Session 31I

**C3 Historical issues in evolutionary thinking**

*Chair: Olha Simoroz*

15:15

*Roman Otto Jordan*

The evolutionary epistemology of Rupert Riedl – a consequent realization of the

program of naturalizing epistemology?

B1, C3

15:45

*Christopher Donohue*

The monogenesis controversy: A historical and philosophical investigation

B6, C3, C4

16:15

*Hayley Clatterbuck*

Darwin's causal argument against intelligent design

B6, C3

### Room 402

#### Session 31K

**C2 Interpretation of quantum physics 2**

*Chair: Matthew Parker*

15:15

*Maria Panagiotatou*

The quantum measurement as a physical interaction

C2

15:45

*Foad Dizadji-Bahmani*

In defence of branch counting in Everettian quantum mechanics

C2

### Room 202

#### Session 31L

**C5 Philosophy of the cognitive and behavioral sciences**

*Chair: Valeria Giardino*

15:15

*Sajjad Karmaly*

Why cognitive kinds can't be the kind of kinds that are natural kinds?

A new hypothesis for natural kinds

B4, C5

### Room 347

#### Session 31M

**A1 Mathematical logic 5**

*Chair: Joachim Hertel*

15:15

*Giovanni Marco Martino*

An algebraic model for Frege's

Basic Law V

A1, C1

15:45

*Nurlan Markhabatov and Sergey*

*Sudoplatov*

On calculi and ranks for definable families of theories

A1

16:15

*Nikolay Bazhenov, Manat Mustafa*

*and Mars Yamaleev*

Semilattices of numberings

A1

### Room Kotěra

16:45

**Closing ceremony**

### Institute of Philosophy of the Czech Academy of Sciences

20:00

**Closing party**

**11 August 2019**

**Faculty of Architecture, Czech Technical University in Prague, Room Kotěra**

**Public plenary lecture**

**(joint event with Logic Colloquium 2019)**

18:00–19:00

*Hannes Leitgeb* (Ludwig Maximilian University, Munich)

What if meaning is indeterminate?

Ramsification and semantic

indeterminacy

**A light refreshment and welcome drink will be served one hour before the lecture.**

X	V	I
C	L	M
P	S	T





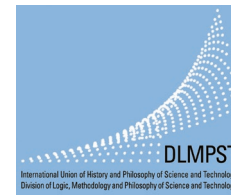








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