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P H I L M A T H S E M I N A R

Research seminar in the philosophy of mathematics and the philosophy of logic

Organizers: Fabrice Pataut (SND) and Francesca Poggiolesi (IHPST)

Please check the websites of IHPST and SND for possible changes due to the COVID-19 pandemic.

Richard Zach (Université de Calgary) donnera une conférence sur le thème **"Semantics of First-order Logic: The Early Years",** le lundi 7 mars 2022, de 17h00 à 19h00, dans la salle de conférences de l'IHPST : 13, rue du Four, 75006 PARIS, 2ème étage.

Les étudiants, doctorants et post-doctorants de l'université Paris 1 Panthéon-Sorbonne, les membres de l'IHPST et les chercheurs associés de l'IHPST peuvent assister à la conférence en présentiel. Le passe sanitaire et le port du masque sont obligatoires. Les autres personnes intéressées peuvent assister à la conférence via Zoom en cliquant sur le lien suivant :

https://zoom.univ-paris1.fr/j/93530391636?pwd=ZlpSRXYwdVl0TDZ3RTNPZlRscVR2UT09

ID de la réunion : 935 3039 1636
Passcode: 106569

Abstract

Semantics of First-order Logic: The Early Years

The model and proof theory of classical first-order logic are a staple of introductory logic courses: we have nice proof systems, well-understood notions of models, validity, and consequence, and a proof of completeness. The story of how these were developed in the 1920s, 30s, and even 40s usually consists in simply a list of results and who obtained them when. What happened behind the scenes is much less well known. The talk will fill in some of that back story and show how philosophical, methodological, and practical considerations shaped the development of the conceptual framework and the direction of research in these formative decades. Specifically, I'll discuss how the work of Hilbert and his students (Behmann, Schönfinkel, Bernays, and Ackermann) on the decision problem in the 1920s led from an almost entirely syntactic approach to logic to the development of first-order semantics that made the completeness theorem possible.
