MAX PLANCK INSTITUTE
FOR THE HISTORY OF SCIENCE

JUNE 9 - 11, 2021

Approximations in Physics: Historical and Philosophical Perspectives

HISTORICAL EPISTOMOLOGY OF THE FINAL THEORY PROGRAM

CO-ORGANIZED WITH DURHAM UNIVERSITY

WEDNESDAY, JUNE 09

14:45-15:00 CEST (8:45-9:00 EDT)
Welcome and Opening Remarks

15:00-16:00 CEST (9:00-10:00 EDT)
"Taking Approximations Seriously: The Cases of the Chew and the Nambu-Jona-Lasinio Models"
Pablo Ruiz de Olano, James Fraser, Rocco Gaudenzi, and Alexander Blum

16:00-16:15 CEST (10:00-10:15 EDT)
Coffee Break

16:15-17:15 CEST (10:15-11:15 EDT)
"Approximation in Newton's Principia"
George Smith

17:15-17:30 CEST (11:15-11:30 EDT)
Coffee Break

17:30-18:30 CEST (11:30-12:30 EDT)
"How 'Wavelength' Found its Truth-Values"
Mark Wilson

THURSDAY, JUNE 10

14:45-15:00 CEST (8:45-9:00 EDT)
Day 1 Recap

15:00-16:00 CEST (9:00-10:00 EDT)
"Ken Wilson and the Slicing Method"
Sébastien Rivat

16:00-16:15 CEST (10:00-10:15 EDT)
Coffee Break

16:15-17:15 CEST (10:15-11:15 EDT)
"The Role of Approximation Methods to Demonstrate the Autonomy of Effective Theories"
Patricia Palacios

17:15-17:30 CEST (11:15-11:30 EDT)
Coffee Break

17:30-18:30 CEST (11:30-12:30 EDT)
"Approximations to What Exactly?"
Michael Miller

FRIDAY, JUNE 11

14:45-15:00 CEST (8:45-9:00 EDT)
Day 2 Recap

15:00-16:00 CEST (9:00-10:00 EDT)
"Computational Methods in Microphysics in the 1950s: Approximation, Technique or Theory?"
Arianna Borrelli

16:00-16:15 CEST (10:00-10:15 EDT)
Coffee Break

16:15-17:15 CEST (10:15-11:15 EDT)
"The Role of Approximation Methods in Observing Gravitational Waves"
Alessandra Buonanno

17:15-17:30 CEST (11:15-11:30 EDT)
Coffee Break

17:30-18:30 CEST (11:30-12:30 EDT)
Final Discussion and Follow-up Plans

Introductory comments by
Eric Winsberg

Participants may to be photographed during the event. Details about data protection can be found on our website at www.mpiwg-berlin.mpg.de/page/data-protection.

Contact
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