

## 64. Cracow School of Theoretical Physics

# From the UltraViolet to the InfraRed: a panorama of modern gravitational physics

June 15–23, 2024

Zakopane, Tatra Mountains, Poland

### Topics include:

- Quantum/semiclassical gravity
- Amplitudes, soft theorems
- Black holes
- Gravitational waves, observation and theory
- Future detectors
- Modified gravity
- Cosmology
- Dark Matter, Dark Energy
- Mathematical aspects of GR

### The School is organized by:

- Institute of Theoretical Physics, Jagiellonian University, Krakow
- Institute of Nuclear Physics Polish Academy of Sciences, Krakow
- AGH University of Science and Technology, Krakow

### Organizing Committee:

Tomasz Bulik (University of Warsaw)  
Jakub Gizbert-Studnicki (Jagiellonian University, Krakow)  
Andrzej Görlich (Jagiellonian University, Krakow)  
Jerzy Lewandowski (University of Warsaw)  
Chunshan Lin (Jagiellonian University, Krakow)  
Patrik Mach (Jagiellonian University, Krakow)  
Jakub Mielczarek (Jagiellonian University, Krakow)  
Jacek Niemiec (Institute of Nuclear Physics,  
Polish Academy of Sciences, Krakow)  
Michał Przaszałowicz (Jagiellonian University, Krakow) — Chair  
George Zahariade (Jagiellonian University, Krakow)

### Speakers include:

Jan AMBJØRN (Niels Bohr Institute, Copenhagen and Radboud University, Nijmegen)  
Eugenio BIANCHI (Institute for Gravitation and the Cosmos, PennState)  
Chris van den BROECK (Utrecht University and NIKHEF)  
Marco CIRELLI (LPTHE, CNRS and Sorbonne University, Paris)  
Zoheyr DOCTOR (CIERA, Northwestern University, Evanston)  
John DONOGHUE (University of Massachusetts, Amherst)  
Maciej DUNAJSKI (DAMTP, University of Cambridge)  
Gia DVALI (LMU and Max Planck Institute for Physics, Munich)  
Astrid EICHHORN (University of Southern Denmark, Odense)  
Jose A. FONT (University of Valencia)  
Viatcheslav MUKHANOV (Arnold Sommerfeld Center, LMU, Munich)  
Raju VENUGOPALAN (Brookhaven National Laboratory and Stony Brook University)  
Alexander VIKMAN (CEICO, FZU-Institute of Physics, Czech Academy of Sciences, Prague)

<http://th-www.if.uj.edu.pl/school/2024>



Ministry  
of Education  
and Science

