

## 63. Cracow School of Theoretical Physics

# Nuclear Matter at Extreme Densities and High Temperatures

September 17–23, 2023  
Tatra Mountains, Poland

### Topics include:

- Overview of future facilities and experiments
- EoS from neutron stars mergers: data and phenomenology
- Intermediate energy heavy ion experiments: data and phenomenology
- Searches for the critical point and phase transitions
- Hyperon production and EoS
- Medium modification of particles' properties
- Reliable theory: perturbative QCD, effective theories, numerical implementations
- Crossing theoretical limitations : models, speculations, ideas
- Spin, rotations and magnetic effects in dense nuclear matter

### The School is organized by:

- Institute of Theoretical Physics, Jagiellonian University, Kraków
- M. Smoluchowski Institute of Physics, Jagiellonian University, Kraków
- Institute of Nuclear Physics Polish Academy of Sciences, Kraków
- AGH University of Science and Technology, Kraków

### in collaboration with:

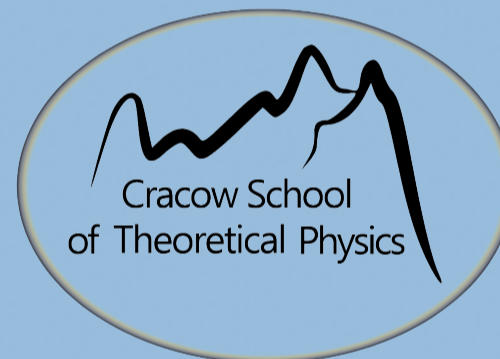
- FAIR
- Division for Fundamental Interactions of the Polish Physical Society,

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- Polish Ministry of Science and Education
- Polish Academy of Arts and Sciences

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