

# RPMBT-23

## *XXIII International Conference on Recent Progress in Many-Body Theories*

and

## *School on Quantum Simulation*

### *First Circular*

URL: <https://rpmibt23.mi.infn.it>

We are pleased to announce the **23<sup>rd</sup>** International Conference on **Recent Progress in Many-Body Theories**, “**RPMBT-23**”, to be held in Milan (Italy), September 14-18, 2026.

The RPMBT conference series (<https://rpmibt.physics.indiana.edu>) is intended to cover in a broad fashion the theoretical tools developed to tackle the quantum many-body problem together with their major fields of application. One of the main aims of the series is to foster the exchange of ideas and techniques among scientists working in the diverse areas of many-body physics.

The RPMBT-23 will present the **Feenberg Medal Award**, for firmly established work that has significantly advanced the field of many-body physics, and the **Hermann Kümmel Early Achievement Award**, to encourage and reward excellence in the field of quantum many-body theory for researchers within a period of 6 years from their PhD. The deadline for nominating outstanding candidates is **15 April 2026** and information is available at <https://rpmibt.physics.indiana.edu>.

The RPMBT-23 will be preceded by a 3-day **School on Quantum Simulation**, on Sept. 9-11, 2026, also open to students (Master, PhD and postdoc) attending the conference. This engaging event will offer a unique opportunity to delve into the fascinating world of quantum simulation of many-body systems using virtual and real quantum hardware.

Detailed information about registration fees and payment methods will be provided by later circulars. Travel information will be available on the website of the meeting, <https://rpmibt23.mi.infn.it>, and updated periodically.

### **The topic of the scientific program will include**

- Quantum Fluids
- Condensed Matter Physics
- Nuclear and Subnuclear Physics
- Quantum Field Theory
- Astrophysics
- Atomic and Molecular Physics
- Quantum Chemistry
- Complex Systems
- Strongly Correlated Electronic Systems

- Quantum Magnetism
- Ultracold Atoms
- Quantum Information Theory and Technologies

### Important Dates

- Abstract submission deadline (TBA): May-June 2026
- Early registration fee deadline (TBA): Approximately mid June 2026
- Deadline for nominations for the *Feenberg Memorial Medal Award*: 15 April 2026
- Deadline for nominations for the *Kümmel Early Achievement Award*: 15 April 2026
- School on Quantum Simulation: 9-11 September 2026
- RPMBT-23 Conference: 14-18 September 2026

### Contact information

Local Organizing Committee: [rpmbt23@mi.infn.it](mailto:rpmbt23@mi.infn.it)

We look forward to welcome you in Milan, in September 2026!

Best regards,

The RPMBT-23 Local Organizing Committee.

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Information on **past RPMBT editions** can be found at <https://rpmbt.physics.indiana.edu>.