

Quantum Meets Classical

International Workshop 7th - 11th October 2024

This workshop is about the interplay between classical computation and quantum dynamics: in particular, new classical theoretical paradigms (based on hydrodynamics) and computational methods for describing quantum systems, and quantum-inspired algorithms for solving classical problems.



Topics

- quantum algorithms
- classical algorithms
- hybrid algorithms
- quantum hydrodynamics
- integrability
- computation
- quantum information
- tensor networks
- simulation
- error correction
- measurement and feedback
- complexity

Invited speakers

Trond Andersen (US)
 Jens Bardarson (SE)
 Bruno Bertini (UK)
 Ignacio Cirac (DE)
 Philip Crowley (US)
 Jacopo De Nardis (FR)
 Abhishek Dhar (IN)
 Fabian Essler (UK)
 Juan Garrahan (UK)
 Andrew Green (UK)
 Aram Harrow (US)
 Oliver Hart (US)
 Wen Wei Ho (SG)
 Robert Huang (US)
 Katja Klobas (UK)
 Michael Knap (DE)
 Ewan McCulloch (US)
 Max McGinley (UK)
 Frank Pollmann (DE)
 Andrew Potter (CA)
 Xiaoliang Qi (US)
 Jörg Schmiedmayer (AT)
 Dries Sels (US)
 Kristan Temme (US)
 Johannes Zeiher (DE)

Scientific coordinators

Anushya Chandran
 Boston University, USA

Sarang Gopalakrishnan
 Princeton University, USA

Christopher Laumann
 Boston University, USA

Vadim Oganessian
 City University of New York,
 USA

Organisation

Christina Kuß
 MPIPKS Dresden

Applications received before 15 August 2024 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international workshop is 200 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses.

For further information please contact:
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