

Frontiers of Quantum and Mesoscopic Thermodynamics

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<http://fqmt.fzu.cz/15/>

Under the auspices of

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President of the Senate of the Parliament of the Czech Republic

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President of the Academy of Sciences of the Czech Republic

Dominik Cardinal Duka OP

Archbishop of Prague



View of Prague (19th century)

Anonymous engraving

Topics

Foundations of quantum physics
Quantum measurement, entanglement and coherence
Quantum optics
Quantum many body physics
Non-equilibrium statistical physics
Quantum thermodynamics
Dissipation, dephasing, noise and decoherence

Macroscopic quantum behavior
Cold atoms, Bose-Einstein condensates
Topological states, quantum phase transitions
Physics of quantum computing and information
Mesoscopic, nano-electromechanical and nano-optical systems
Biological systems, molecular motors and quantum biology
Cosmology, gravitation and astrophysics

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