

# Frontiers of Quantum and Mesoscopic Thermodynamics

29 July - 3 August 2013, Prague, Czech Republic

<http://fqmt.fzu.cz/13/>

Under the auspices of

**Ing. Miloš Zeman**  
President of the Czech Republic

**Prof. Ing. Jiří Drahoš, DrSc., dr. h. c.**  
President of the Academy of Sciences of the Czech Republic

**Milan Štěch**  
President of the Senate of the Parliament of the Czech Republic

**Dominik Cardinal Duka OP**  
Archbishop of Prague



View of Prague (1493, from Liber cronicarum by H. Schedel)

Woodcut by M. Wolgemut and W. Pleydenwurff

## Topics

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

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

## Public lectures

**Serge Haroche (Paris)**

**Pavel Kroupa (Bonn)**

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