

Albert Einstein was professor of theoretical physics in Prague in 1911-1912 and read his lectures in the Clementinum and at the Physical Institute. In the same time a new view of space appeared in the Prague cubistic architecture which is unique in the world.

Ernst Mach lived in Prague and contributed to the development of several parts of physics.

Christian Doppler discovered and formulated in Prague the physical effect now known as the Doppler principle.



In the first half of the 19th century, Bernhard Bolzano, mathematician and philosopher, advanced significantly fields of logic, variables, limits, continuity and concept of infinity.



Joseph Stepling, a member of the Jesuit Order at St Clement College, rep-

Frontiers of Quantum and Mesoscopic Thermodynamics

26-29 July 2004, Prague, Czech Republic

www.fzu.cz/activities/conferences/fqmt04

Satellite of the 20th General Conference of the EPS Condensed Matter Division 19-23 July 2004, Prague



With public evening lecture by A. J. Leggett on 27 July



The beginning of science in the Czech territory is related to the founding of the Charles University in 1348, the first university in the Central European region.

Prague became the capital of the Holy Roman Empire. The high level of science in Prague at that time is confirmed by the sophisticated Prague Astronomical Clock at the Old Town Hall. Its mathematical model was developed by professor Jan Sindel. The clock was made by Mikulas of Kadan in 1410.

Civilization, science, physics - Prague milestones



The Prague Castle was founded around 880, Prague became a centre of Czech Lands.





Rudolph II (1576-1612) invited to Prague many significant scientists, painters, architectors and musicians. During his reign Prague became the European centre of science and arts. Tycho Brahe came to Prague in 1599 and began to form a circle of younger co-workers. In 1600 Johannes Kepler arrived.



The paper in which Brahe

Topics:

Quantum and mesoscopic thermodynamics

Quantum measurement and decoherence

Mesoscopic and nanomechanical systems

Molecular motors and ratchets

Quantum computing

Relevant experiments

Confirmed speakers:

A. Aharony (Tel Aviv) A. E. Allahverdyan (Amsterdam) B. L. Altshuler (Princeton) R. Balian (CEA-Saclay) J. Berger (Karmiel) M. P. Blencowe (Dartmouth) T. Brandes (Manchester) M. Büttiker (Genova) A. O. Caldeira (Campinas) P. Hänggi (Augsburg) H. Grabert (Freiburg) D. E. Gross (Berlin) F. Haake (Düsseldorf) G. Ingold (Augsburg) S. Klumpp (Golm) H. Linke (Oregon) A. J. Leggett (Urbana) A. MacKinnon (London) G. Mahler (Stuttgart) J. E. Mooij (Delft) A. V. Nikulov (Chernogolovka) R. F. O'Connell (Baton Rouge) E. Paladino (Catania) L. S. Schulman (Clarkson University) K. Schwab (Maryland) M. O. Scully (Princeton) T. Seideman (Evanston) P. Talkner (Augsburg) U. Weiss (Stuttgart) A. Zeilinger (Vienna) - tentatively W. H. Zurek (Los Alamos) - tentatively

resented a new trend in science based on Newton's work. In 1751 he founded the Clementinum observatory which keeps the longest series of meteorological records in the world.

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Johannes Marcus Marci of Kronland (1595-1667), professor and rector of the Charles Univeristy, investigated e.g. different properties of light (spectral colors, wave nature, diffraction), being a predecessor of Huygens and Newton. $\begin{array}{c} \text{ASTRONOMIA NOVA}\\ \text{AITIONOFHTOS,}\\ \text{VPHYSICA COELESTIS,}\\ \text{tradita commenatiis}\\ \text{DE MOTIBVS STELL&}\\ \text{M A A R T L& S,}\\ \text{Ex obfervationibus G, V,}\\ \text{TTCHONIS B RAHE:} \end{array}$

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Tycho Brahe is burried in the Church of Our Lady before Tyn at the Old Town Square.

