Department of Electromagnetic Field

Faculty of Electrical Engineering, CTU in Prague

would like to invite you

to a guest lecture of

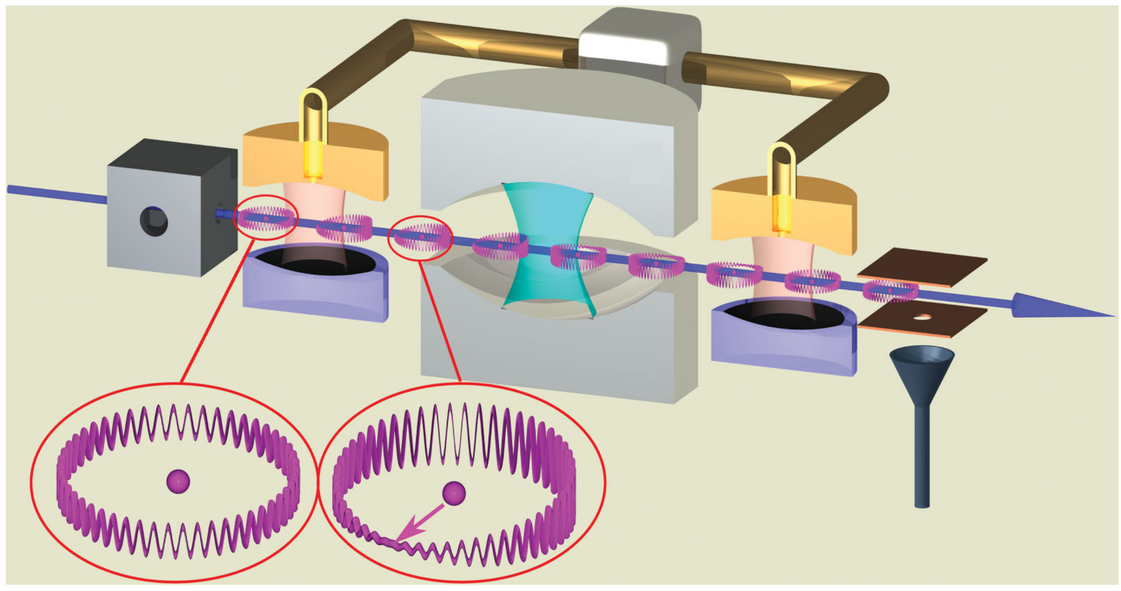
Prof. Petr Kulhánek

Single Photon Measurements

When: 8th March 2016 at 2:30 p.m.

Where: Technicka 2, Prague 6, room no. T2: B2-621

The nondestructive counting of photons, the recording of field quantum jumps, the preparation and reconstruction of the "Schrödinger cat" states of radiation and the study of their decoherence provide an illustration of the transition from the quantum to the classical world. These experiments allow us to realize some of the thought experiments imagined by the founding fathers of quantum physics.



Prof. Petr Kulhánek was born January 9, 1959, Prague. Study: mathematical physics, Charles University, 1983. PhD topic: "Plasma Accelerators", finished in 1987. Associated professor in 1996, topic "Theoretical models of z pinches". CTU Professor of applied physics in 2005, topic "Particle in Cell simulations of plasma fibers".
Member of professional board Physics of the Earth and Universe of the GA ASCR (2006-2008), member of the Board of the Centrum for Theoretical Astrophysics ASCR (from 2007), member of editorial boards of 4 physical journals Czechoslovak Journal of Physics, Astropis, etc.), founder of the Aldebaran Group for Astrophysics, member of the Board for doctoral Studies in West Bohemian University, CTU, and UP, member of the IAU, Czech Astronomical Society, several years chairman of the Editorial board of the Symposium of Plasma Physics and Technology. Participant of GA ASCR and MEYS grants.
Coordinator of the development of the 3D program PIC package 3D, author of the package kernel and of the particle and field solvers. Interested in plasma numerical simulations, plasma theory, especially plasma waves, turbulences and instabilities.