Max-Born-Institut

Institutskolloquium

Am Mittwoch, **7. Juli 2004 um 16:00 Uhr** spricht:

Peeter Saari
Institute of Physics, University of Tartu
Tartu, Estonia

über

"Localized Waves in Ultrafast Optics"

Localized waves are wideband pulsed fields which maintain their spatio-temporally localized shape in the course of propagation as if not affected by diffraction, they may propagate without any spread faster than the speed of light in vacuum, and exhibit other startling properties. Study of such bullet-like waves has grown up from a stage of pure theoretical activity to a promising mature subject supported by experimental research in various directions.
The goal of the talk is to give a basic understanding of the physics and concepts of the localized waves, to indicate some interesting relations of the subject to non-linear optics, theory of relativity and quantum photonics, and to refer to possible applications in various research fields from ultrafast spectroscopy up to laser-driven particle acceleration and optical data-processing.

Ort: Max-Born-Saal, MBI, Max-Born-Str. 2a

Interessenten sind herzlich eingeladen.

Prof. Dr. T. Elsässer

Max-Born-Institut, Max-Born-Straße 2A, D-12489 Berlin, Tel.: 030/6392 1505, Fax: 030/6392 1519