



Physical Sciences Seminar

Extraordinary momentum and spin in structured light

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Host: Johannes Fink

Konstantin Bliokh will overview recent theoretical and experimental studies, which revisit fundamental dynamical properties of light: momentum and angular momentum. A canonical field-theory approach has allowed us to predict qualitatively new types of spin and momentum in structured optical fields. These are: 1. A transverse spin angular momentum, which is orthogonal to the wave vector and is independent of the helicity; 2. An anomalous transverse momentum, which depends on the helicity of light and exerts a weak anomalous optical pressure orthogonal to the wave vector. Both these quantities have attracted considerable attention and have been described and measured via light-matter interactions in several experiments.

Thursday, September 9, 2021 01:00pm - 02:30pm

Mondi Seminar Room 2, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.