Charles University
Faculty of Mathematics and Physics

Cordially invites you to

29th Strouhal's Lecture

PUSHING THE LIMITS USING HIGH MAGNETIC FIELDS

Given by

RNDr. Milan Orlita, Ph.D.
(LNCMI - CNRS, France)

On Wednesday, 11 March 2026 at 4 p.m.

The lecture will be held in
the Strouhal´s auditorium (F1),
Prague 2, Ke Karlovu 5

RNDr. Milan Orlita, Ph.D. (*1978) holds a senior researcher position at the Centre National de la Recherche Scientifique (CNRS), France. He received his doctoral degree from the Faculty of Mathematics and Physics, Charles University, in 2006, specializing in quantum optics and optoelectronics. Since 2007, he has been working at the Laboratoire National des Champs Magnétiques Intenses in Grenoble. His research focuses on the magneto-optical properties of a broad range of emergent solid-state systems, including two-dimensional materials, topological matter, and magnetic systems.

Abstract
High magnetic fields constitute an essential tool in modern experimental physics and many other scientific disciplines. This lecture will review the role of high magnetic fields in scientific research, outline the methods used to generate them – enabling fields strengths reaching hundreds of tesla – and discuss the associated technical challenges. It will also present the principal areas of application and highlight significant scientific results achieved using high magnetic fields, especially in solid-state physics.