

COLLOQUE DE PHYSIQUE

Lundi 31 mars 2025, 12h30

École de Physique, Auditoire Stueckelberg

Prof. Lukas Novotny

Photonics Laboratory
ETH Zürich

« Quantum Control of of Levitated Nanoparticles »

We use levitated nanoparticles to explore the quantum-classical boundary and to investigate the limits of measurement precision. To this end, we utilize the many degrees of freedom of these nanoparticles, including translations, librations, rotations and vibrations.

I will report on our recent progress in controlling these modes and discuss applications in sensing and metrology.

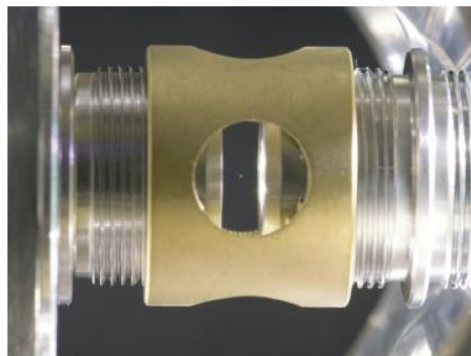


Figure 1: Photograph of light scattered from a laser-trapped nanoparticle.

Une collation en compagnie du conférencier sera offerte après le colloque.