

Seminar : Mathieu Mivelle

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From electric to magnetic optical fields, manipulating the six components of light at the nanoscale



Light has been considered for many years in physics as a scalar value and only through its electric field. In my talk, I will present how we can manipulate each component of the electric and magnetic optical fields by controlling light at the nanoscale. This manipulation allows us to couple each of these components to matter in order to control magnetic quantum processes, interactions between chiral light and chiral matter or to generate ultrashort, intense, unidirectional magnetic field pulses at the nanoscale.

Séminaire organisé dans le cadre du projet de programme interdisciplinaire MAT-PULSE



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