Ab initio description of high-harmonic generation in solids

Dr. Nicolas Tancogne-Dejean

Post-doctoral Researcher, Theory Department, Max Planck Institute for the Structure and Dynamics of Matter Hamburg

Recently the possibility to generate high-order harmonics in solids have attracted a lot of attention. In this talk, we show that ab initio calculations, performed within the framework of time-dependent density functional theory, help unraveling the microscopic mechanisms responsible for HHG in solids.