Carl von Ossietzky Universität Oldenburg Institut für Physik

Physical Colloquium

"Attosecond pulses of light for the study of electron dynamics"

Prof. Dr. Anne L'Huillier 2023 Nobel Prize in Physics Lund University, Department of Physics

Friday, 13.12.2024, 12.15 p.m. Get together with Q&A from 11.30 a.m. Room No. W03 1-161



When an intense laser interacts with a gas of atoms, high-order harmonics are generated. In the time domain, this radiation forms a train of extremely short light pulses, of the order of 100 attoseconds. Attosecond pulses allow the study of the dynamics of electrons in atoms and molecules, using pump-probe techniques. This presentation will highlight some of the key steps of the field of attosecond science.

Host: Dr. Jan Vogelsang



experiments.

## The world of electrons is explored with the shortest of light pulses