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INTERNATIONAL YEAR OF  
Quantum Science  
and Technology



International  
Day of Light  
16 May



## Attosecond Light Pulses for Studying Electron Dynamics

A webinar in celebrating the International Day of Light 2025

by Prof. Anne L'Huillier (Lund University, Sweden)

Nobel Laureate in Physics 2023



Friday 16 May 2025

3:00 PM Amman (GMT +3)

on Microsoft Teams



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Hosted by **LAMBDA Physics Group** at The University of Jordan

More details on LAMBDA website: <https://science.ju.edu.jo/en/lambda/Home.aspx>

### Abstract

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 talk will highlight some of the key steps in the field of attosecond science, starting with the generation of high-order harmonics and continuing with the measurement of attosecond pulses. Applications in atomic spectroscopy will be presented.

### Biography

Professor Anne L'Huillier is a Professor of Atomic Physics at Lund University in Sweden. She is the fifth woman to be awarded the Nobel Prize in Physics (was awarded the Nobel Prize in Physics 2023 together with Pierre Agostini and Ferenc Krausz for “experimental methods that generate attosecond pulses of light for the study of electron dynamics in matter”).