



RICHARD TAÏEB

From France to Sweden



Project: **Attosecond physics, photoionization dynamics and characterizing Fano resonances**

Research topic: **Physics**

Swedish Institution: **Lund University**

French Institution: **Sorbonne University (ex-University Pierre et Marie Curie)**

Dates of mobility: **16/10/2017 to 20/10/2017**

Program: **SFVE-A (ex-TOR)**

PRESENTATION

[Richard Taïeb](#) is a Senior Researcher and French National Centre for Scientific Research ([CNRS](#)) Director of Research in Physical Chemistry at the Laboratory for Physical Chemistry – Matière et Rayonnement ([LCPMR](#)) at [Sorbonne University](#) (previously University Pierre et Marie Curie UPMC). He obtained his PhD in 1992 and was habilitated in 2004 at the same university. His research focuses on attosecond physics, electron dynamics and the tracking of chemical reactions and photo-induced phenomena.

ACTIVITIES IN SWEDEN

Taïeb's mobility to [Lund University](#) was centred on discussions with [Prof. Anne L'Huillier](#), director of the attophysics group. He also had fruitful dialogues with PhD student [David Busto](#) on the RABBIT technique (analyzing the energy-integrated oscillations of the sideband signal) to characterise Fano resonances, and [Stefanos Carlström](#) on atomic coherence and ionisation experiments. He visited a laboratory where experiments were conducted on RABBIT and ensuing discussions with [Saikai Nandi](#) and [Shiyang Zhong](#) emerged. He held a seminar followed by deliberations with [Prof. Claudio Verdozzi](#).

During the exchanges, both sides realised they had simultaneously developed similar analytical models to represent ionised electron waves in the presence of a Fano resonance. Taïeb held a seminar entitled "Photoionization dynamics: Transition and scattering delays" in front of an audience of around 30 researchers and PhD students from the attophysics group and the [Department of Physics](#).