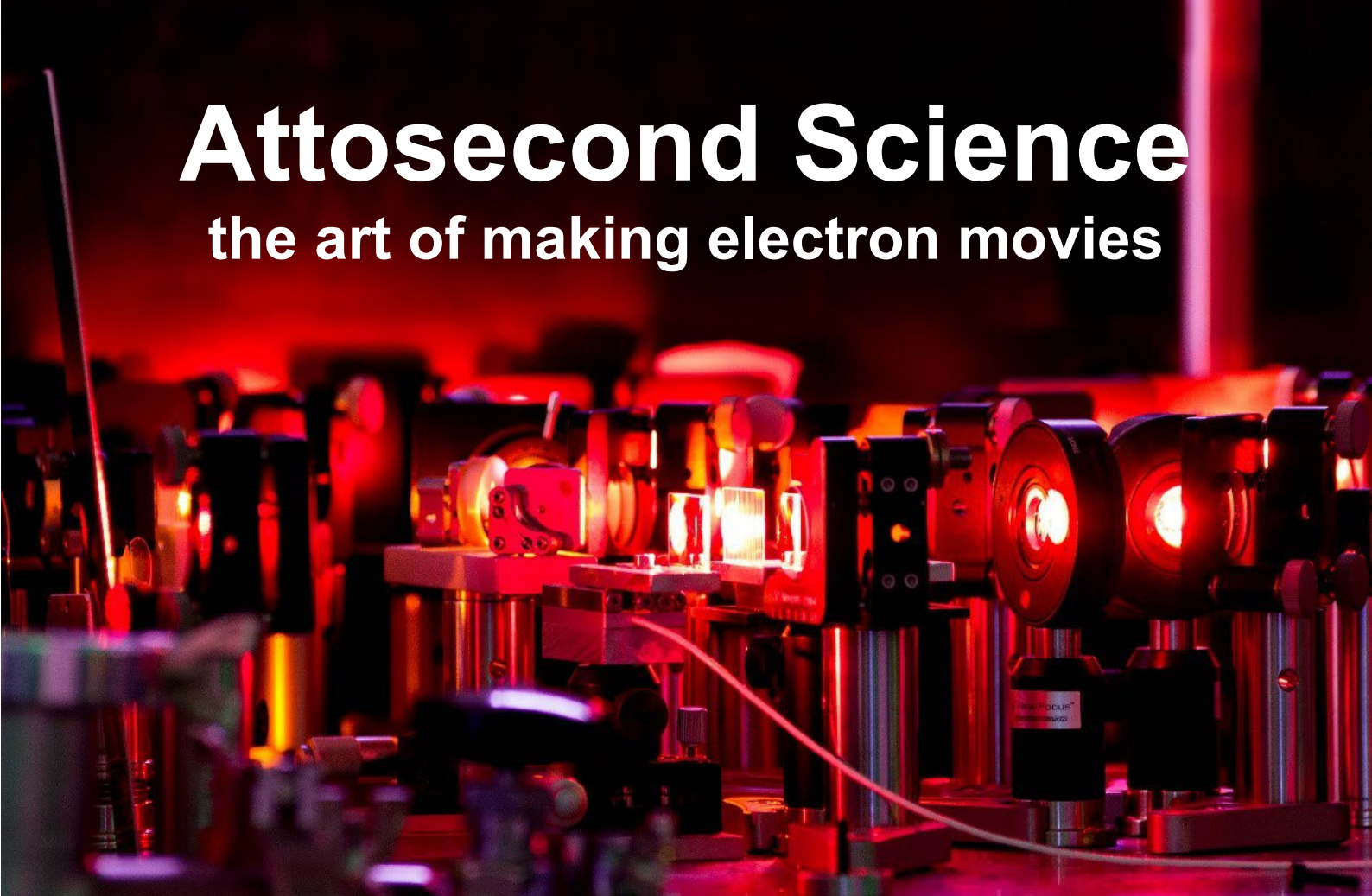


Attosecond Science

the art of making electron movies



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The **Nobel Prize in Physics 2023** was awarded jointly to Pierre Agostini, Ferenc Krausz and Anne L'Huillier "*for experimental methods that generate attosecond pulses of light for the study of electron dynamics in matter.*"

After 22 years since the **first experimental demonstration of attosecond pulses**, the Attosecond Science has become a very active field of research, with prominent applications in atomic, molecular and solid-state physics.

The introduction of new attosecond experimental techniques, together with the development of sophisticated theoretical methods for the interpretation of the experimental outcomes, **allowed unravelling and investigating physical processes never observed before.**

Experimental advances, in terms of new sources, devices and techniques, are still required, together with new theoretical tools and approaches, but attosecond physics has firmly established as a mature research field.



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