



Contribution ID: 28

Type: **poster**

Longitudinal Momentum of the Electron at the Tunnelling Exit

Monday 1 July 2019 18:15 (2 hours)

The longitudinal tunnelling-exit momentum of the electron in strong-field tunnelling ionization is shown to be nonzero even in the static or the adiabatic limit. This nonzero momentum is a purely quantum mechanical effect determined by the shape of the wave function in the vicinity of the tunnelling-exit point. Nonadiabaticity or finite wavelength may increase this momentum substantially, and the detailed value depends on both the atomic and the laser parameters.

Authors: Mr LI, Tao (Beijing Computational Science Research Center); Dr XU, Ruihua (Graduate School, China Academy of Engineering Physics); Prof. WANG, Xu (Graduate School, China Academy of Engineering Physics)

Presenter: Prof. WANG, Xu (Graduate School, China Academy of Engineering Physics)

Session Classification: Poster session 1