

Luis Fernández Menchero

Queen's University Belfast
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Researcher profile

Research background

- 2000 – 2005: PhD Universidad Autónoma de Madrid. Ion – molecule collisions. Charge exchange, dissociation and vibrational excitation in ion – molecule collisions. Theoretical study of collisions ion – H₂.
- 2010 – 2015: Atomic Data and Analysis of Structure (ADAS) project. University of Starthclyde.
 - 2010 – 2012: Institute of Plasma Physics Garching. Collaboration with experimentalists in ASDEX-Upgrade. Beam modelling, Stark effect.
 - 2013 – 2015: University of Starthclyde. R-Matrix calculation for atomic processes for fusion and astrophysics.
- Currently: Queen's University Belfast. R-Matrix calculations for atomic processes for fusion and astrophysics.

Current research interests

- Atomic data production: electron-impact excitation and ionization, photoionization, radiative recombination, dielectronic recombination, etc.
- Fundamental atomic physics. Different methods to calculate the data. Accuracy of the calculations. Atomic structure.