Atomic and Ionic Collisions with Formation of Quasimolecules

Message from the Guest Editors

Dear Colleagues,

Many fields in physics and astronomy, depend on data for ionic, atomic and molecular collision processes. Nowadays, in the field of astrophysics modeling of these data is especially important and needed for simulations/calculations. Additionally, these processes are important for diagnostics, analysis and modeling of fusion plasma, laser produced plasma, lasers design and development and various plasmas in industry and technology. Among these amounts of data collection, there are collisional and radiative processes that even today are poorly represented. Therefore, there is an urgent need to collect these data, as well as to develop methods for improving the existing ones.

This Special Issue aims to encourage further dialogue and knowledge transfer. Potential topics include, but are not limited to:

- atomic data
- molecular data
- stellar spectra
- laboratory plasma
- fusion plasma
- stars
- atomic and molecular databases
- Rydberg atoms
- collisional atomic processes

Deadline for manuscript submissions: 1 August 2019

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