Special Issue

The 5th Spectral Line Shapes Workshop: Current Topics in Spectral Line Broadening in Plasmas

Message from the Guest Editor

The Spectral Line Shapes in Plasma (SLSP) code comparison workshop series [1] has provided a forum for the fruitful introduction, refinement, and testing of ideas and computational methods, applied to suitably chosen test cases for line shape computations in plasmas, which, among other things, is very important for diagnostics of laboratory and astrophysical plasmas. Five meetings have been held thus far—in 2012, 2013, 2015, 2017, and 2019. Selected topics from the first two workshops were published in an *Atoms* Special Issue [2], with a second Special Issue [3] covering topics from the 3rd and 4th SLSP. The present Special Issue mostly covers topics either directly from the 5th SLSP or topics that emerged from the many fruitful discussions during the meeting, such as large magnetic fields and isolated lines. As usual, the present Special Issue is meant to address a number of current research topics, and to publish contributions from the wider community working on diverse aspects of calculations of spectral line shapes in plasma.

Guest Editor

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Message from the Editor-in-Chief

The scope of *Atoms* is deliberately wide and encompasses a large part of theoretical and experimental atomic,
molecular, nuclear, and chemical physics in order to encourage cross-disciplinary connections, while supporting the more traditional idea of individual subfields. The journal is also interested in papers concerning
the computation and compilation of data related to applications in the above areas. Details of experimental methods and codes are welcome. Your research is taken seriously and peer-reviewed with care. I encourage you
to contact me or any of the Editorial Board Members for further information.

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