



Applications of Spectroscopy in Astronomy Laboratory Based Experiments of Astrophysical Relevance

Guest Editor:

Prof. Dr. Klaus Michael Spohr

Extreme Light Infrastructure, ELI-
NP, Bucharest, Romania

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Message from the Guest Editor

Dear Colleagues,

Astrophysical studies progress via a huge variety of experiments and theoretical studies in nuclear physics. New possibilities are brought to the field by the emergence of high power laser facilities in the sub-PW to PW regimes. Those all-optical accelerator systems allow the production of intense gamma-ray bursts, as well as electron, and ion acceleration simultaneously. Thus they can provide hot plasma conditions for extremely short times in laboratory experiments. As the field is relatively new, we are dedicating this Special Issue to the collection and discourse of relevant studies. This includes advanced experimental strategies, their theoretical underpinning with large-scale simulations, and the development of detector concepts that can withstand the associated experimental conditions which are inherently interwoven with the high-intensity nature of the short laser pulses. Knowing that experimental data in the field is still sparse we are also happy to include cutting-edge project plans and technical design report (TDR)-like submissions.

Prof. Dr. Klaus Michael Spohr
Guest Editor





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
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