Electronic and optical excitations in bulk and low-dimensional materials

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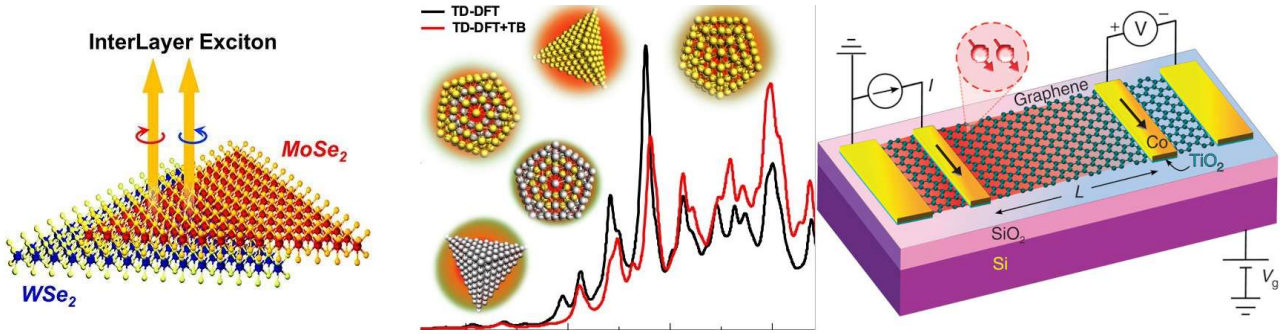
The aim of this mini-colloquium is to present the state of the art in the study of optical and electronic excitations of bulk and low-dimensional materials. Electronic and optical excitations are fundamental for understanding the operation of various optoelectronic devices, including photovoltaics. Various experimental techniques, such as ARPES, transport, linear and non-linear absorption, pump and probe techniques, etc., can be employed to investigate these excited states and their dynamics.



This mini-colloquium aims to bring together the French community to explore different experimental and theoretical approaches to the study of electronic and optical excitations. It will serve as an open forum to discuss emerging topics such as time-resolved vibrational and electronic spectroscopy, hetero- and nano-structures, including the role of point defects.

We propose a session with one invited speaker: **Sylvain Latil,** IRAMIS, SPEC, GMT CEA-Saclay (30 minutes talk) and a series of contributed talks (15-20 minutes each).