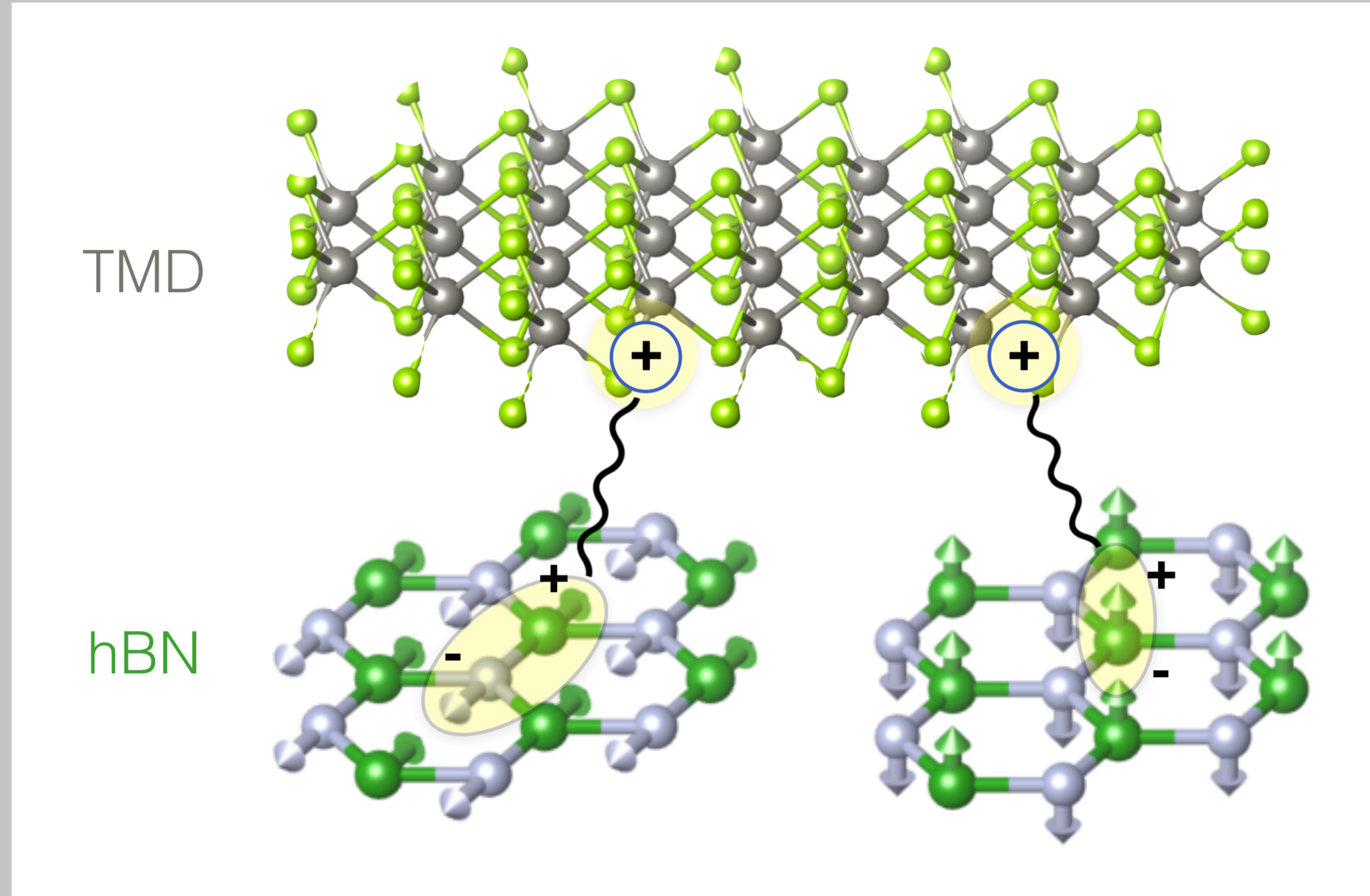


Coffee and tea will be available from 12h30 at the entrance of the Auditoire
Reduce waste and bring your own coffee cup!

Electron-phonon coupling across the TMD/hBN van der Waals interface

Gianmarco Gatti
(group of prof. Baumberger)

Electronic states in a two-dimensional system and bosonic excitations in an adjacent substrate may be strongly coupled. These interfacial interactions are still poorly characterized in van der Waals heterostructures, where one would expect that they play a marginal role. Here, we investigate the nature and magnitude of such interactions in the electronic states of a WS_2 /hBN heterostructure via angle-resolved photoelectron spectroscopy. We resolve dispersing satellites separated from the intense quasiparticle WS_2 valence band by energies comparable to Γ phonon modes in hBN. We derive a spectral function model to describe the interfacial coupling between charges in the WS_2 layer and the lattice vibrations of the polar hBN substrate, which we employ to provide a qualitative estimation of the interaction strength. Finally, we evaluate the entity of this coupling at large out-of-plane WS_2 -to-hBN distance in a WS_2 /graphite/hBN heterostructure.



From Lab to Launch: Entrepreneurship for Scientific Founders

Julien Levallois
(Science Innovation Hub, Faculty of Science & Research and Grants Office)

In this presentation, I will briefly describe the basics of launching a startup and some of its benefits, including how startups create career opportunities for scientists and facilitate the development and commercialization of innovative technologies that tackle today's biggest challenges. Many of these innovations, particularly in deep tech, originate in academic research, forming the foundation for original business ideas and new ventures. I will also present how UNIGE supports aspiring entrepreneurs and provide tips on maximizing your chances of success in the entrepreneurial journey.

