

**O 42: Overview Talk (Leeor Kronik)**

Time: Wednesday 9:30–10:15

Location: HE 101

**Invited Talk**

O 42.1 Wed 9:30 HE 101

**Understanding organic/inorganic interfaces from first principles** — •LEEOR KRONIK — Weizmann Institute of Science, Rehovoth, Israel

In this tutorial lecture, I will review some of the fundamental physical

mechanisms affecting the electronic structure at organic/inorganic interfaces, with an emphasis on collective phenomena. I will demonstrate how first principles calculations, based primarily on density functional theory, can be successful in elucidating such phenomena. I will also discuss caveats and limitations in their application, as well as avenues for further research.