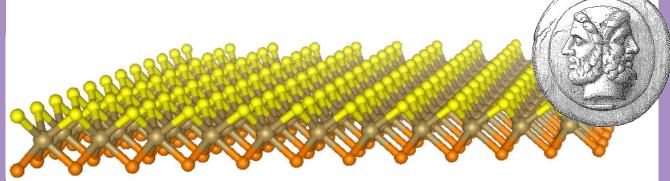
AG Festkörperphysik

Prof. Dr. Carsten Busse

Interested?
More info via mail,
phone (3583) or in
person (ENC-B 009)

Master Thesis (Nanoscience)
Ultrathin Janus membranes



Janus membrane made of tantalum, sulfur, and selenium (TaSSe)

Janus membranes are thin films with different properties on the opposing sides. 2D materials can be the ultimate Janus membranes that show contrasting properties in the smallest possible systems. Furthermore, the different atoms on both sides lead to a built-in potential, which is intersting for applications, e. g. in photovoltaics. We proposed a new way to prepare these membaranes that will be investigated further in this project.