AG Festkörperphysik

Prof. Dr. Carsten Busse

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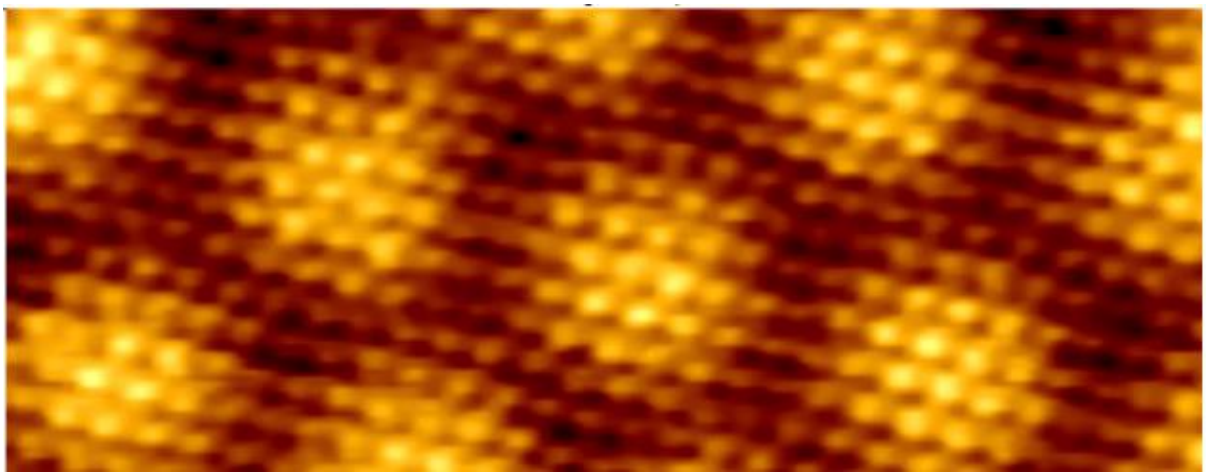
More info via mail, phone (3583) or in person (ENC-B 009)

Master Thesis (Nanoscience)

Optimizing the preparation of ultrathin materials



Transition metal dichalcogenides are an important subgroup of two-dimensional materials. A common preparation method for compounds containing sulfur is evaporation of the metal in an atmospere of sulfur-containing gas, e. g. H_2S. There are, however, problems with this method as the gas is toxic, corrosive, difficult to dose, and rather inert. In this project, an alternative pathway will be explored, namely the evaporation of elemental sulfur from a specialized evaporator.

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