

Positions for Postdoctoral Researchers

The **Alexander von Humboldt Sofja Kovalevskaja Group** headed by Dr. Mazhar Ali is looking for Postdoctoral Researchers in the field of **2D material physics/chemistry**. The project is an interdisciplinary investigation into the fundamental transport characteristics of novel 2D spin-liquid-candidate materials and topological materials. The researcher will focus on the exfoliation, thin film fabrication, or focused-ion-beam milling of materials to investigate their transport properties in the 2D limit. Particular emphasis lies on exfoliation of layered, van-der-waals materials like Graphene, WTe₂, CrI₃, Nb₃Cl₈, and others. Fundamental electronic properties of the pure materials as well as heterostructures of the materials with magnetic or strain-inducing layers will be investigated. Also, Josephson-junction and qbit fabrication will be carried out and superconducting properties explored.

YOUR PROFILE

Candidates should have

- completed their PhD degree in physics, materials science, chemistry, or related fields
- a strong research and journal publication record as well as an excellent academic record
- excellent English language skills
- research experience with thin flake exfoliation and device fabrication (E-beam lithography), thin film deposition, spintronic materials and devices, magnetic and transport characterization
- a strong drive to excel in an interdisciplinary and international environment
- highly creative and innovative competencies and must be outstanding team players who can work in a fast-paced and highly dynamic environment

TERMS OF EMPLOYMENT

- positions are with an initial appointment for one year with possibility of extension
- positions are available immediately
- we welcome applications from disabled persons with equal qualifications
- furthermore, the Max Planck Society aims to employ more women in this area and therefore particularly encourages applications from women

YOUR APPLICATION

- can be uploaded as a single pdf file at our **application website** with reference to **MPI_Halle_PD_003**. Please supply the name and email of at least two references
- should include a complete CV, certificates and transcripts, a statement of past research accomplishments (PhD thesis, research projects)
- Also email Dr. Mazhar Ali at **mnali@mpi-halle.mpg.de** with a notification of application

Only online applications will be considered. More detailed information about our research areas <http://www.mpi-halle.mpg.de/research-groups>.



MAX PLANCK INSTITUTE
OF MICROSTRUCTURE PHYSICS

