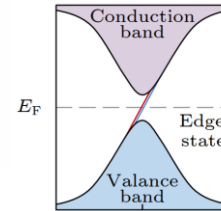
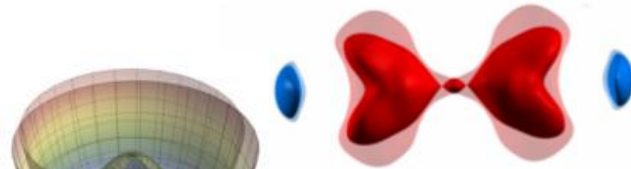


# Quantum phenomenon in 2D Materials

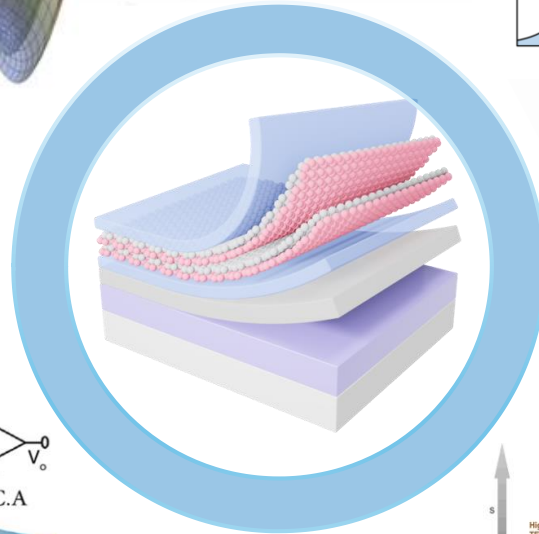
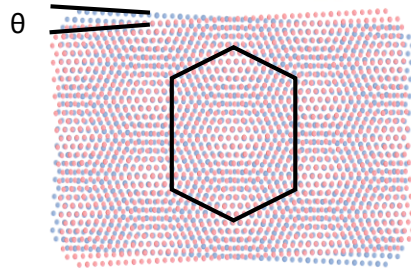
*Our quantum consortium aims to discover, understand, and tune quantum states of matter utilizing transport and spectroscopic probes amalgamated with computational quantum methodologies for 2D van der Waals' materials.*

Designing 2D emerging quantum materials

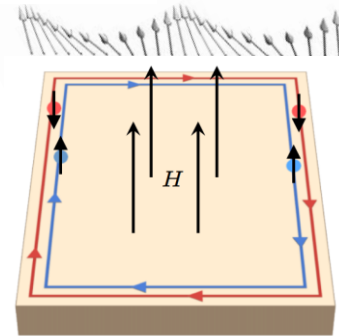


Topological devices

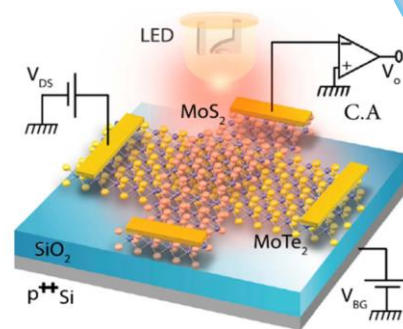
Moire superlattices



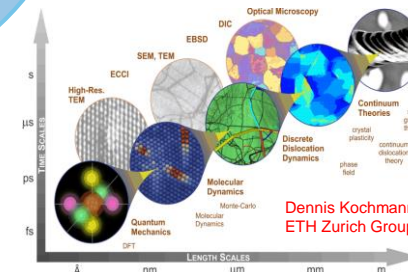
Spin susceptibility and spin spirals



Optoelectronics in van der Waals heterostructures



Computational method development



*We specialize in precise tuning of material properties and investigation of novel quantum phenomenon such as twistrionics, moire patterns, excitons, phonons, topology and spintronics.*

<p><b>Experimental</b> Dr. Manabendra Kuri</p>	<p><b>Theory/ Computational</b> Dr. Suvadip Das Lekshmi SM</p>
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