

MACHIDA LAB.

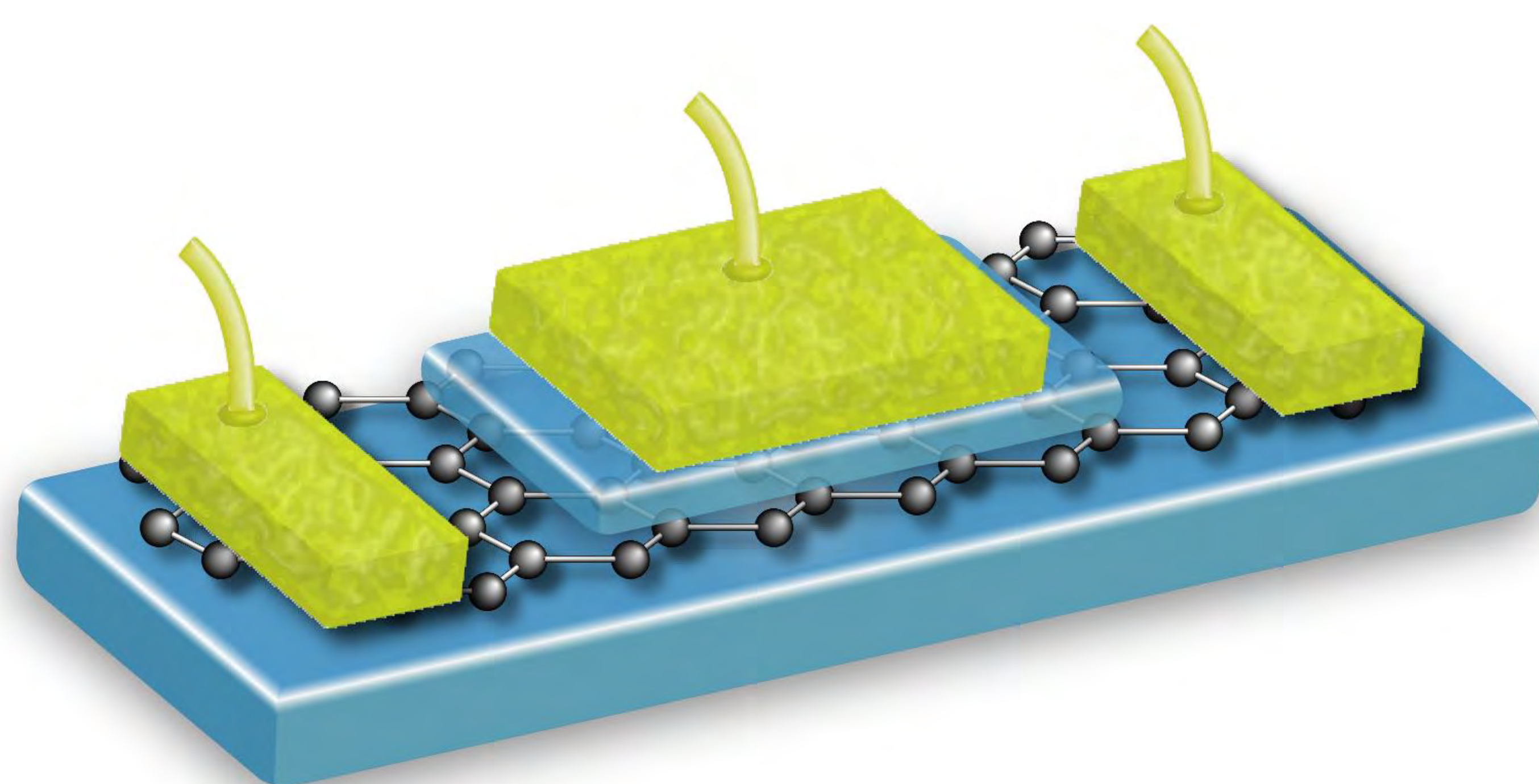
[Science of Atomic Layer Materials]

Department of Fundamental Engineering

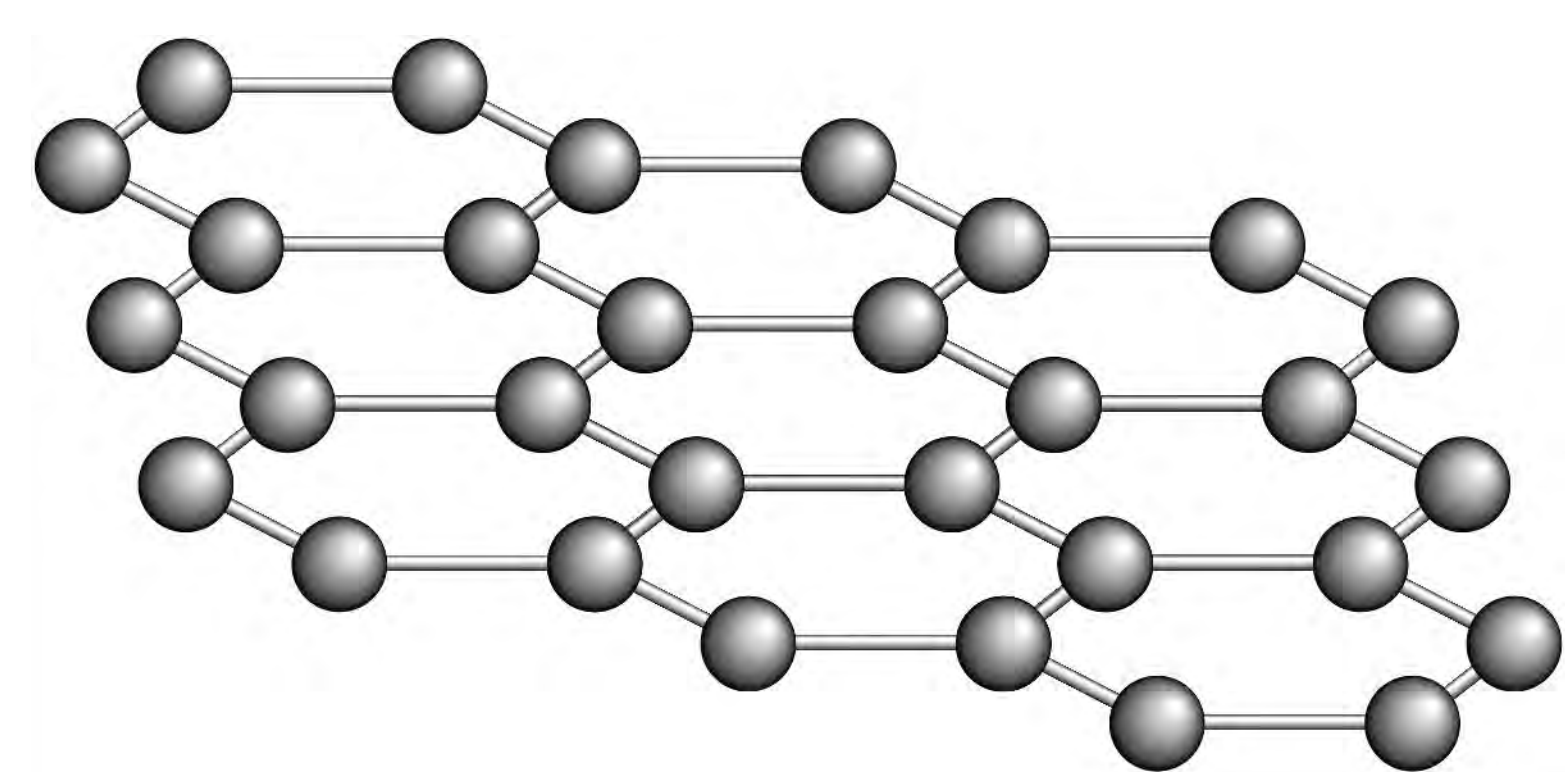
Quantum Transport in Low-dimensional Systems

Department of Materials Engineering

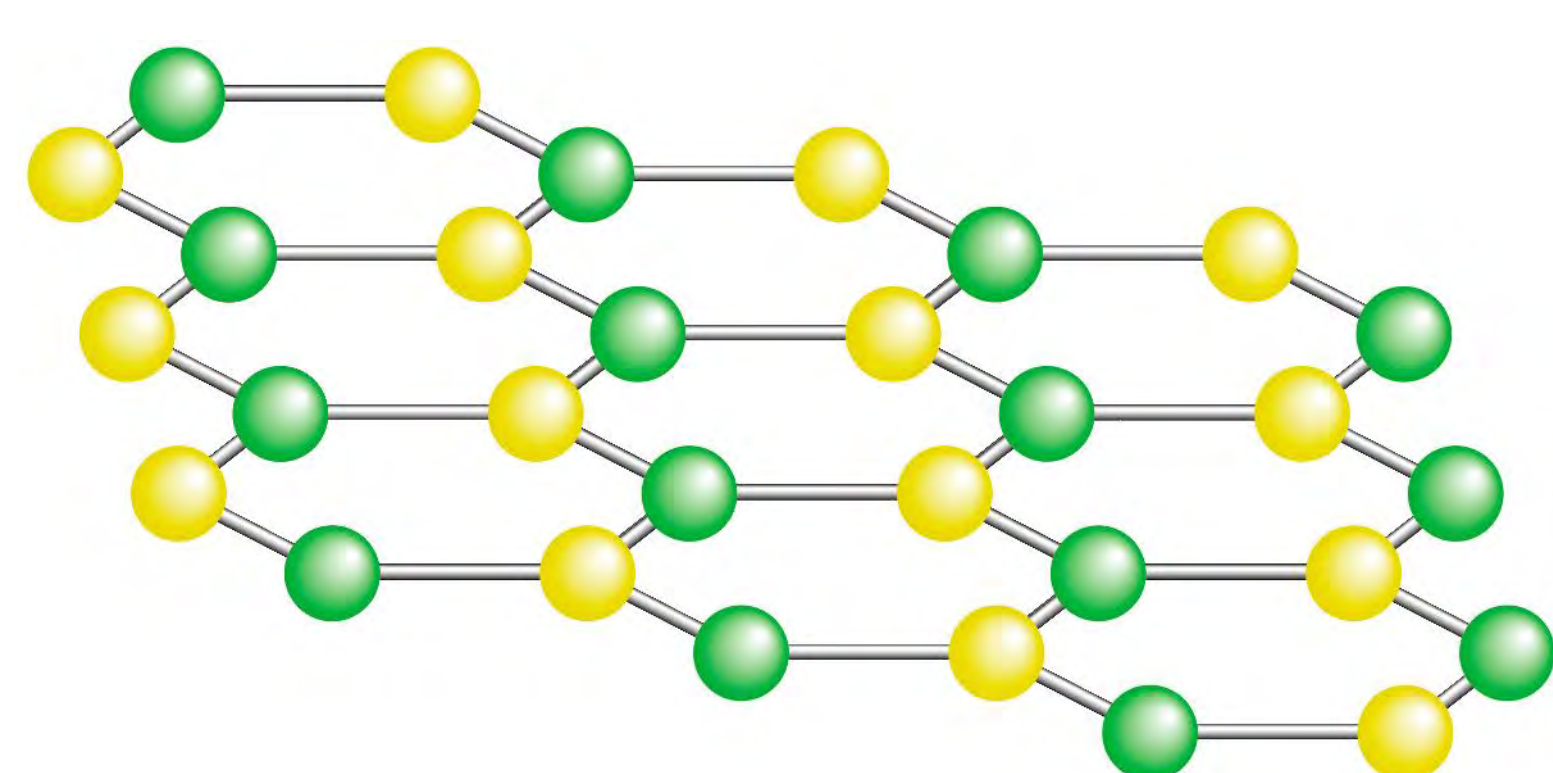
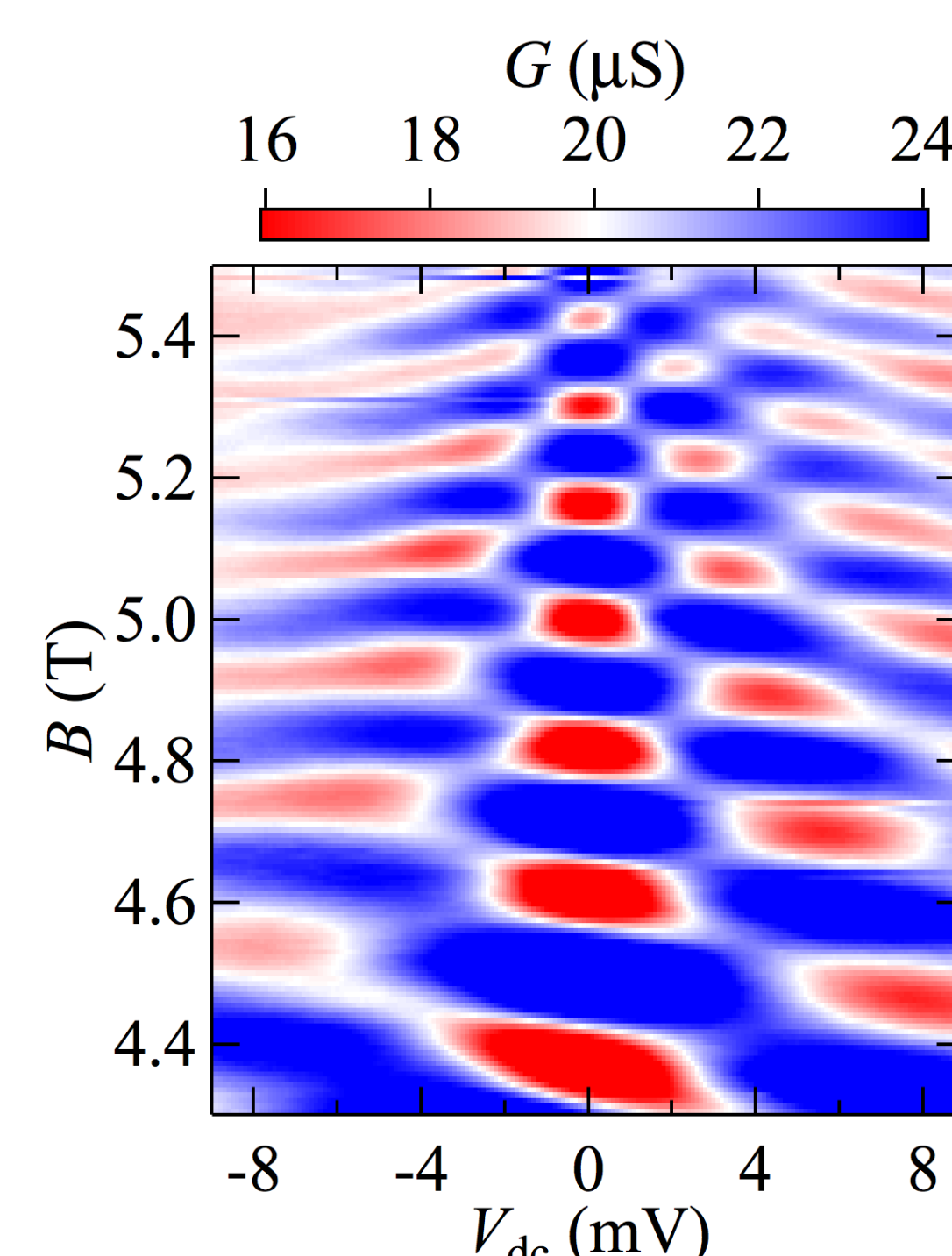
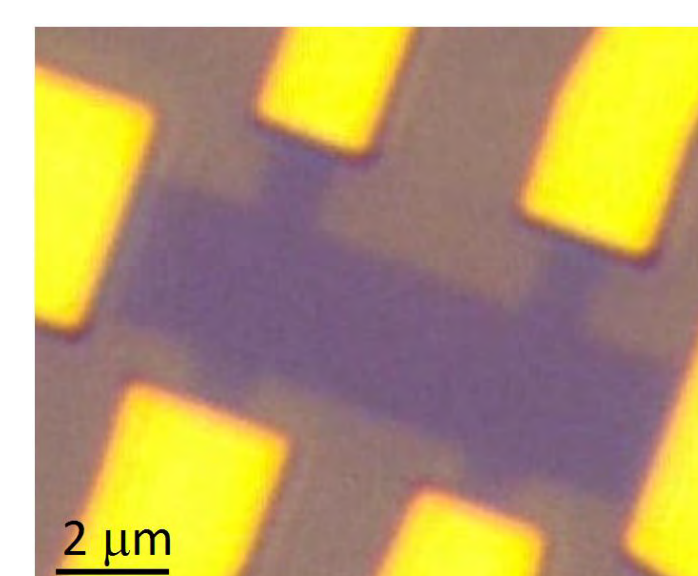
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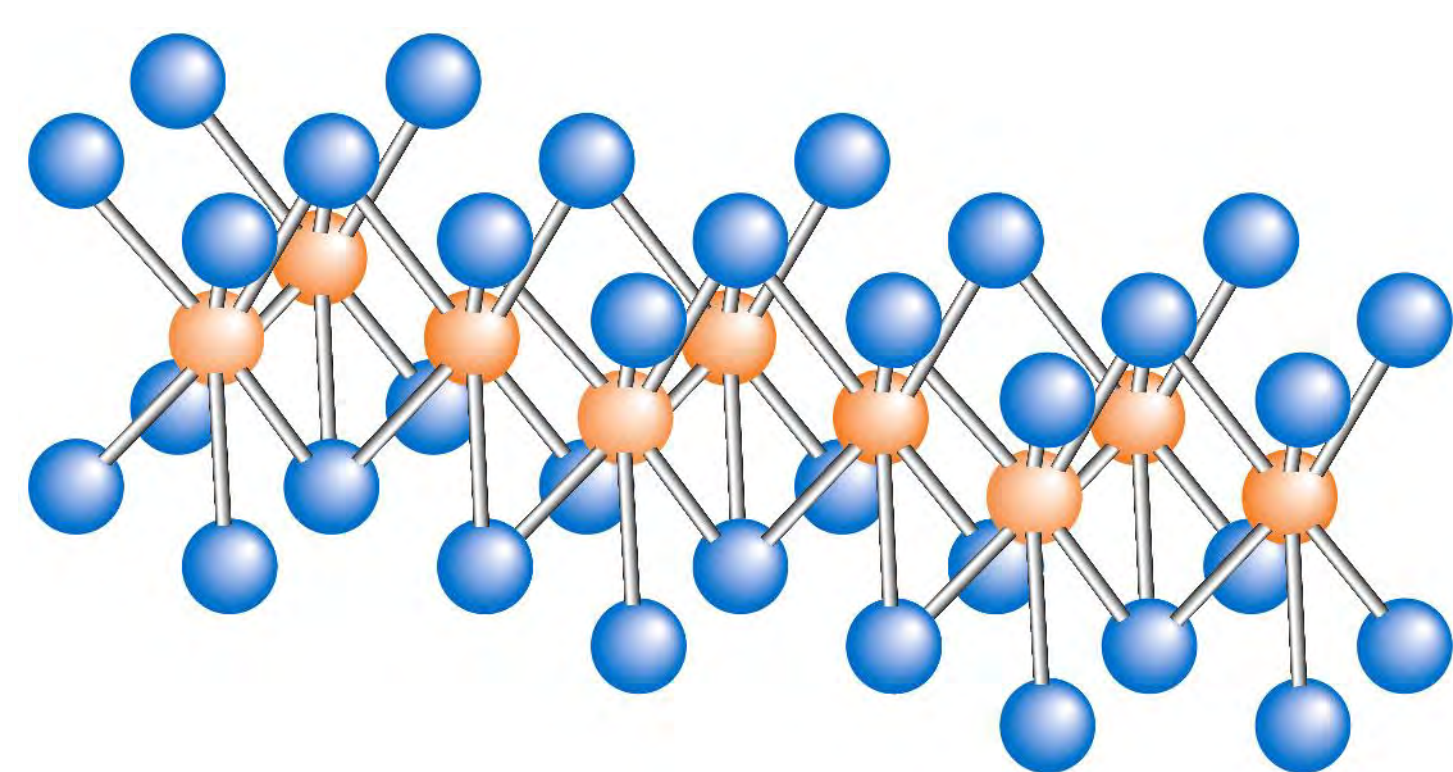
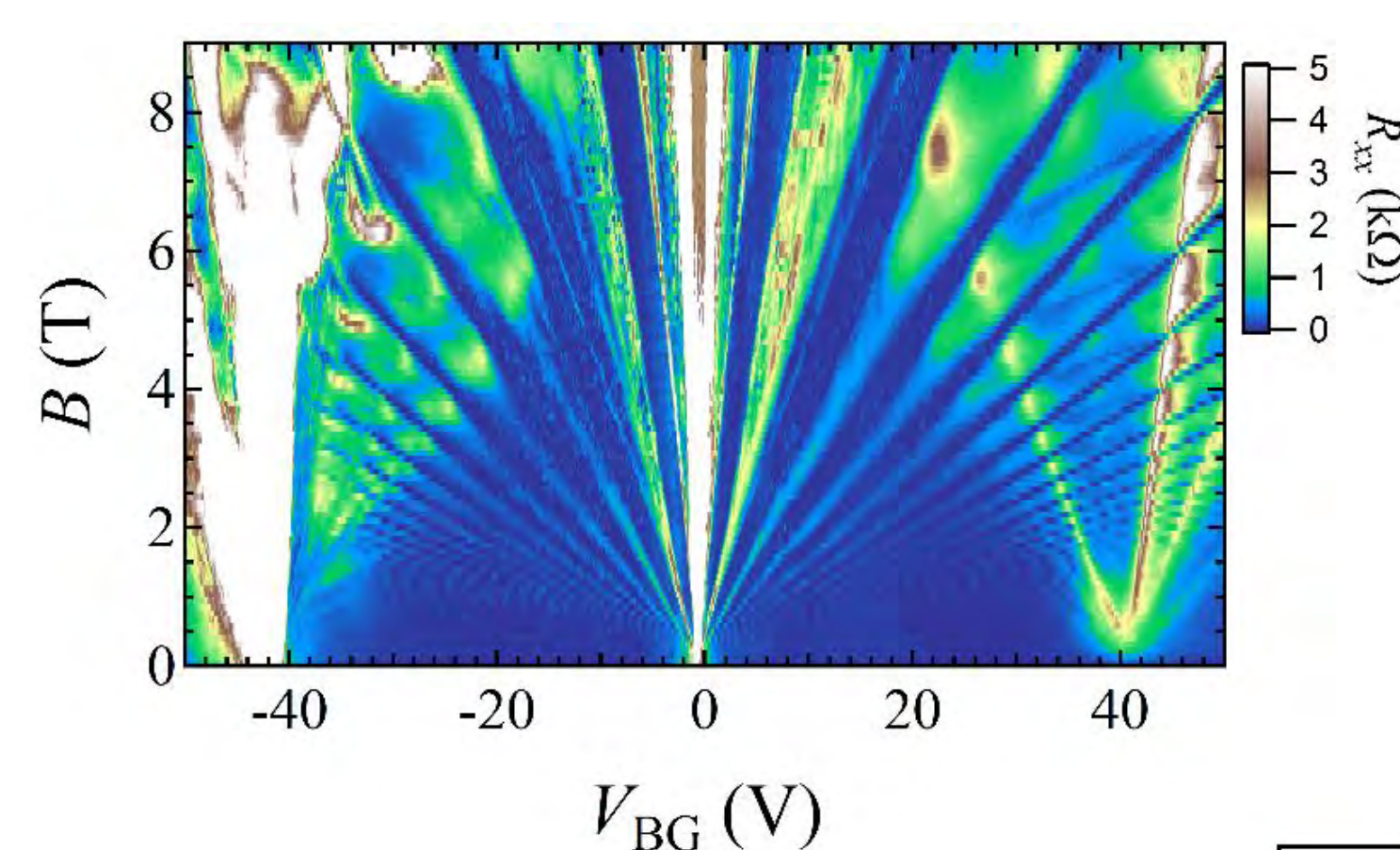
The graphene and other one atomic layer thick crystals reveal unusual quantum physics. By combining material science, nano-fabrication, and low temperature (10 mK) measurement, we explore the science and the engineering of graphene and two-dimensional crystals.



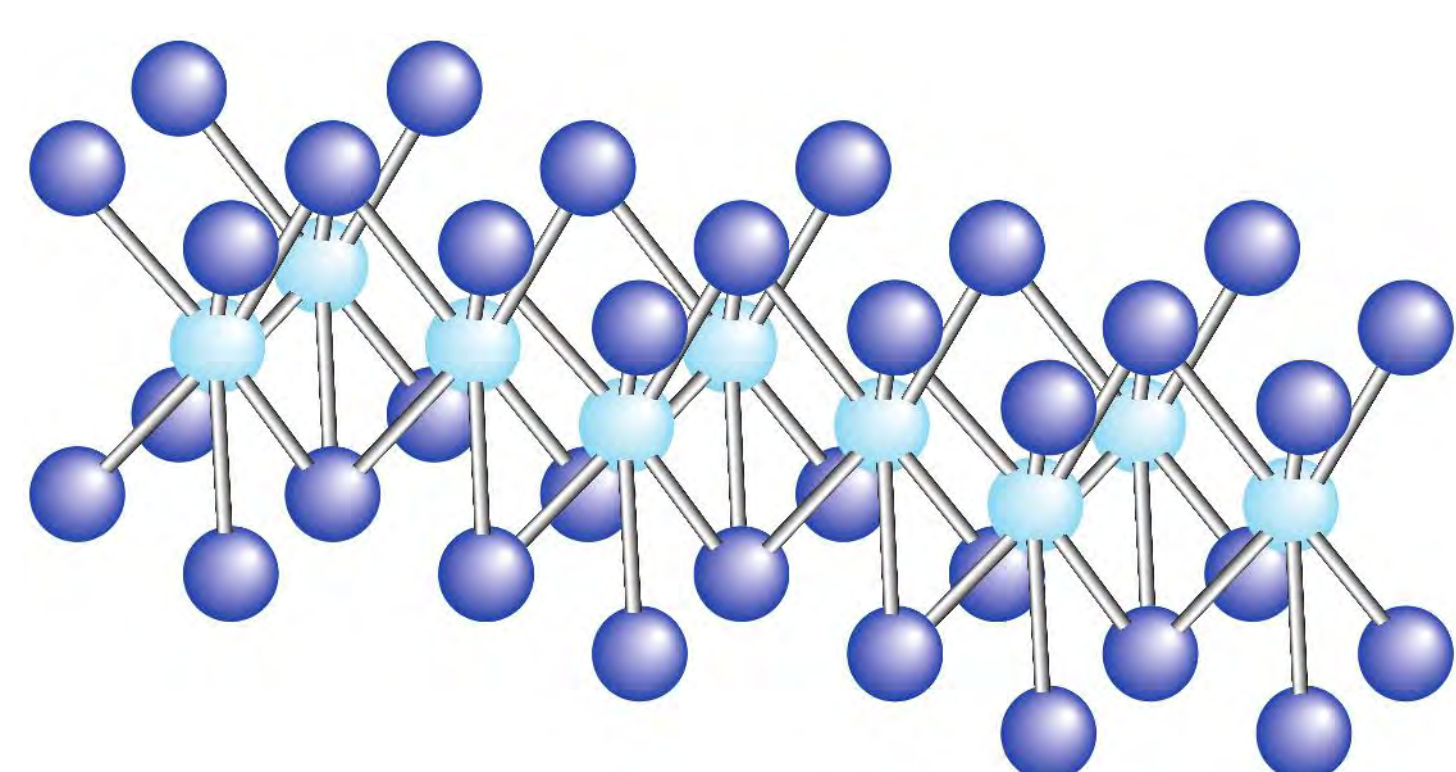
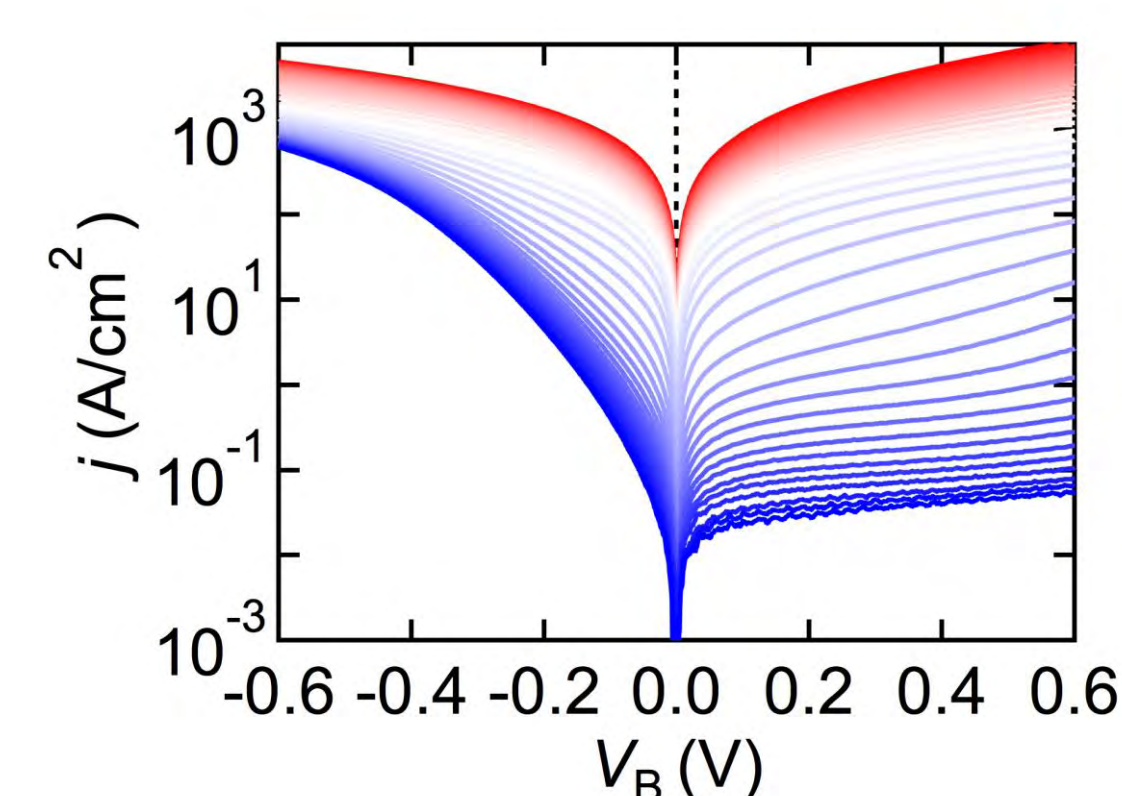
Graphene
One atomic layer thick Dirac material



h-BN
2D insulator



MoS₂
Monolayer semiconductor



NbSe₂
Superconductivity in one monolayer

