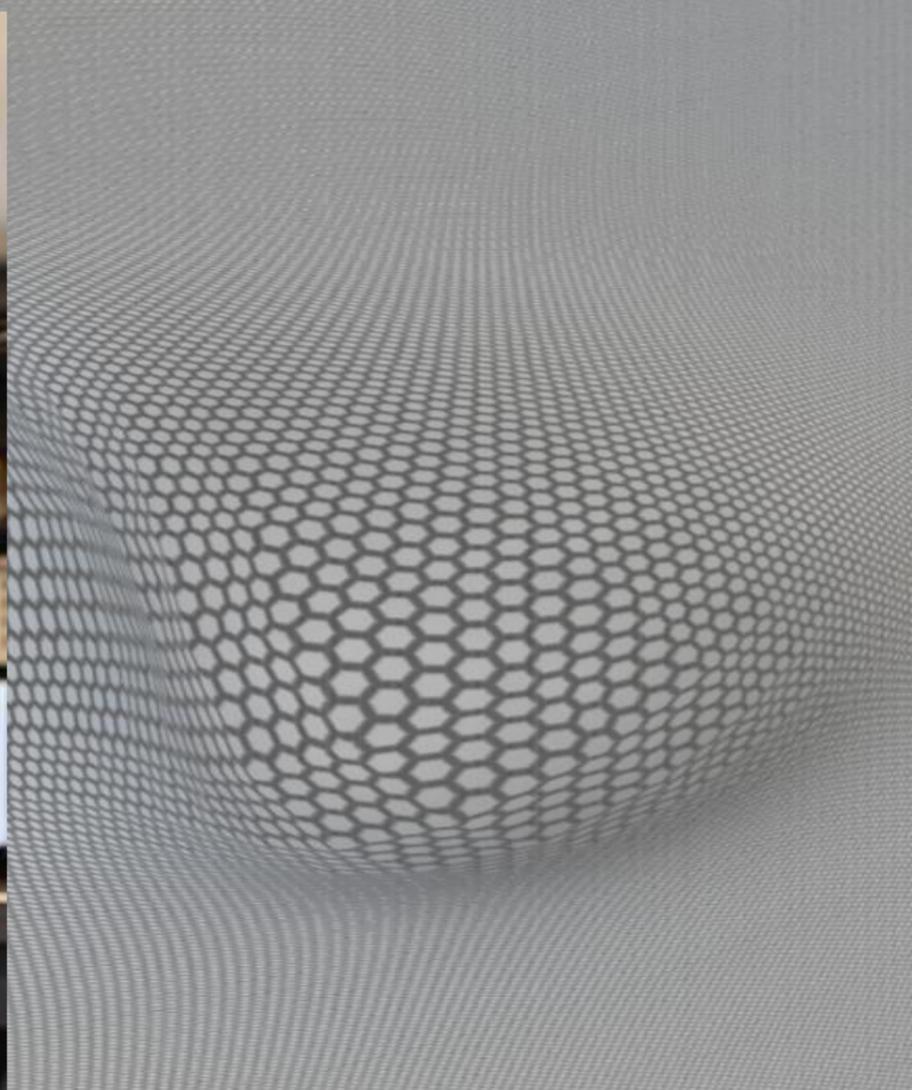
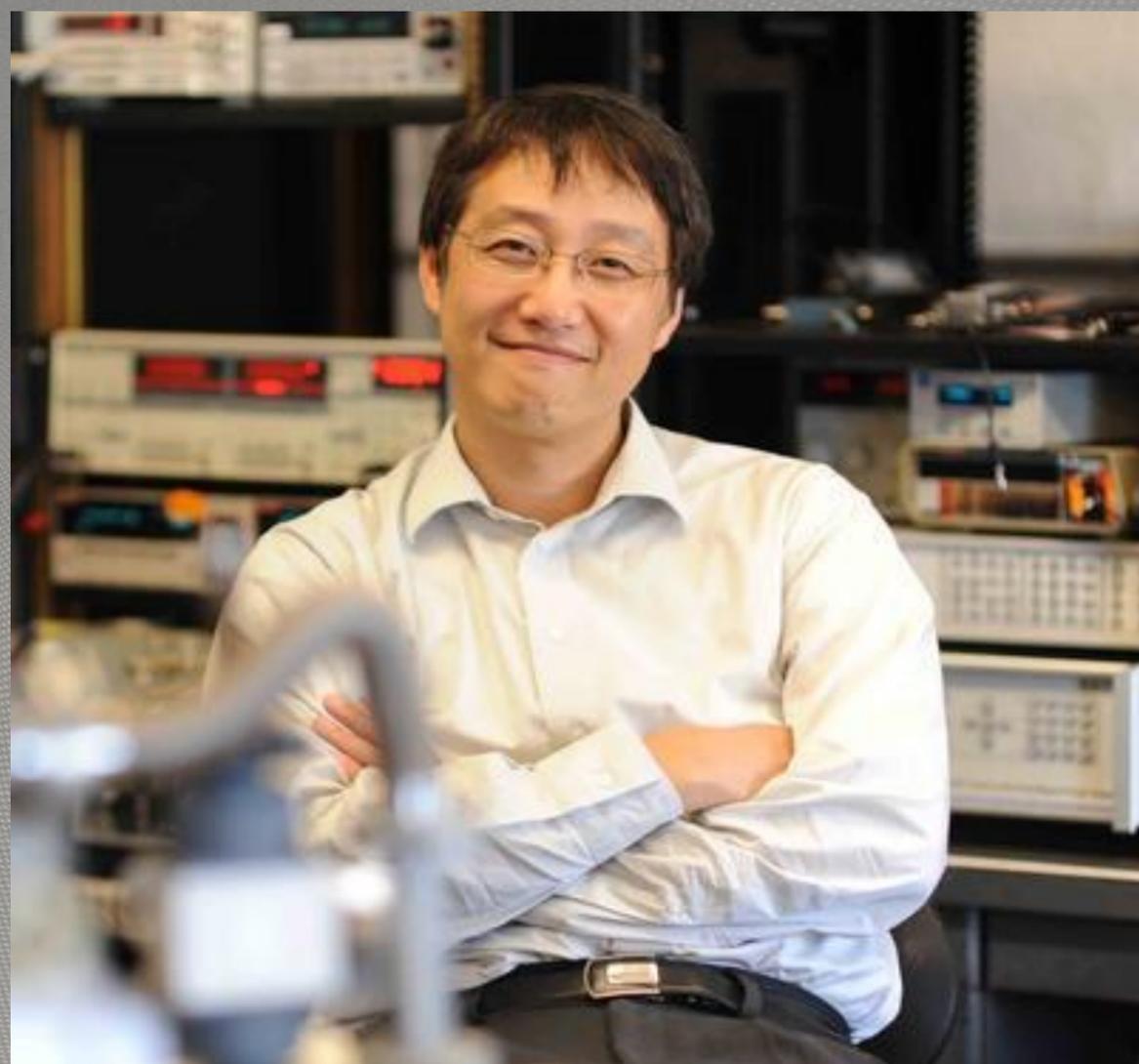


PUBLIC LECTURE**Stacking atomic layers: quest for new materials and physics**

Monday JAN. 8, 2018

5:00 PM

HOMI BHABHA AUDITORIUM
TIFR, COLABA, MUMBAI**Prof. Philip Kim**Department of Physics
Harvard University, USA

Modern electronics has heavily relied on the technology to confine electrons in the interface layers of semiconductors. In recent years, scientists discovered that various atomically thin materials including graphene, a single atomic carbon layer, can be isolated. In these atomically thin materials, quantum physics allows electrons to move only in an effective 2-dimensional (2D) space. By stacking these 2D quantum materials, one can also create atomic-scale heterostructures with a wide variety of electronic and optical properties. I will discuss the creation of new heterostructures based on atomically thin materials and emerging new physics with technological implications therein.

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