

## **Exploring quantum coherence and correlations in Flatlands 2D crystals**

Dong-Keun Ki (奇東槿)

PhD from POSTECH, Physics (Prof. Hu-Jong Lee) 2010 Postdoc in University of Geneva (Prof. Alberto Morpurgo) 2010-2014 Senior Research Associate in UniGe 2014-2018



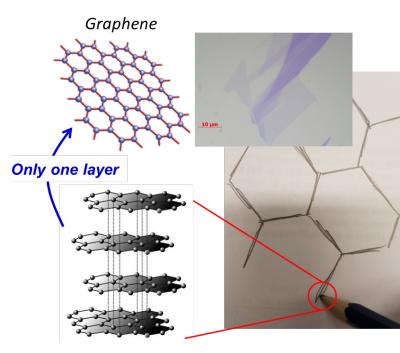




DongKeun Ki dkki@hku.hk Research activities in **Quantum Device Lab** We study fundamental electronic properties of the atomically thin layered materials, such as graphene

Main goal: discover and engineer new phases of matter

Graphene and 2D materials



## Three key features

- 1) Ultimate 2D limit
- 2) Strong electronic interaction
- 3) Large experimental flexibility

Nanofabrication

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New physics

New discoveries

New applications

Low-temperature measurement systems





https://www.physics.hku.hk/~dkkilab/