



Contribution ID: 7

Type: **Keynote**

Magnetic Van der Waals materials: Discovery & Perspective

Wednesday, 5 June 2019 09:00 (1 hour)

There has been a huge increase of interests in two-dimensional van der Waals materials over the past ten years or so. Despite the impressive list of new materials and the novel physics it has come to offer, there is the conspicuous absence of one particular class of materials: magnetic van der Waals systems. It is certainly a sorry status of materials science given the huge impact the magnetic materials have had on both the fundamental understanding and the diverse applications. In this talk, I will identify and illustrate how we might be able to benefit from exploring these so-far neglected materials.

- [1] Je-Geun Park, J. Phys. Condens. Matter 28, 301001 (2016)
- [2] Jae-Ung Lee, et al., Nano Lett. 16, 7433 (2016)
- [3] Cheng-Tai Kuo, et al., Scientific Reports 6, 20904 (2016)
- [4] So Yeun Kim, et al., Phys. Rev. Lett. 120, 136402 (2018)
- [5] Kenneth S. Burch, David Mandrus, and Je-Geun Park, Nature 563, 47 (2018)
- [6] Kangwon Kim, et al., Nature Communications 10, 345 (2019)

Primary author: Prof. PARK, Je-Geun (Center for Correlated Electron Systems, Institute for Basic Science (IBS) & Dep. of Physics and Astronomy, Seoul National University)

Presenter: Prof. PARK, Je-Geun (Center for Correlated Electron Systems, Institute for Basic Science (IBS) & Dep. of Physics and Astronomy, Seoul National University)

Session Classification: 2D magnetic van der Waals materials

Track Classification: 2D magnetic van der Waals materials