



# Mini-workshop



**UNSW**  
THE UNIVERSITY OF NEW SOUTH WALES

## Topology, Superconductivity & Spin-orbit physics

**Time:** 14:00-18:00, Friday, May 17th, 2019

**Location:** Lecture Hall C302, New Science Building

### Welcome speech

14:00-14:05

Yayu Wang

Department of Physics, Tsinghua University

14:05

**Majorana fermions in semiconductor nanowires and a new signature for the opening of a spin-gap**

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14:35

Alex Hamilton

School of Physics, The University of New South Wales

14:35

**Scanning tunneling microscopy of cuprate  $\text{CuO}_2$  planes**

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15:05

Canli Song

Department of Physics, Tsinghua University

15:05

**Observation of anisotropic Majorana bound states in  $\text{WS}_2$**

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15:35

Wei Li

Department of Physics, Tsinghua University

15:35-15:50

### Photo & Coffee

15:50

**Correlated states in flat-band systems and topological properties of surface steps in the  $\text{SnTe}$  material class**

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16:20

Timo Hyart

MagTop, Division On-6 of Institute of Physics, Polish Academy of Sciences

16:20

**Towards the understanding of the many unexpected physical properties of  $\text{WTe}_2$**

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16:50

Feixiang Xiang

School of Physics, The University of New South Wales

16:50

**Large in-plane critical field in two-dimensional Ising superconducting systems**

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17:20

Haiwen Liu

Department of Physics, Beijing Normal University

17:20

**Ising superconductivity in few-layer stanene & Isotropic Josephson coupling in twisted  $\text{BSCCO}$  flakes**

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17:50

Ding Zhang

Department of Physics, Tsinghua University

### Concluding remark

17:50-18:00

Qi-Kun Xue

Department of Physics, Tsinghua University

Tsinghua-UNSW Collaborative Research Fund

