Welcome

We are delighted to welcome you to the first Institute of Physics (IOP) **Young Researchers Meeting** on "Emerging phenomena of condensed matter physics: an atomic perspective".

This workshop aims to build relationships between *Journal of Physics: Condensed Matter* (JPCM) and young scientists in China, raise awareness of the journal within the community, and attract submissions of high quality work from Chinese condensed matter researchers.

The workshop will introduce the students to recent developments at the frontiers of

condensed matter physics, and provide a comprehensive overview of experiments and theory, basic physics and applications. It will bring together leading scientists in the Beijing area and promote collaboration and communication between them (and within other areas of China for future workshops).

This first workshop will focus on two topics: density functional theory and 2D materials.

Programme



23.10.15

Venue: M236, Institute of Physics, CAS

Chair	Lin Gu, Institute of Physics CAS	11:20	Xi Lin
08:30	Matthew Salter Associate Director, Journals, IOP Publishing		Peking University Transport measurements at ultra-low temperatures (experimental)
	Opening remarks & IOP Publishing in China	11:40	Sheng Meng
08:50	Shuyun Zhou <i>Tsinghua University</i> Electronic structures of extended 2D materials and van der Waals		Silicene on silicon
		12:00	Lunch
	heterostructures (experimental)	Chair	Pu Yu, Tsinghua University
09:10	Hongming Weng Institute of Physics, CAS Theoretical prediction of topological materials	14:00	Ninghua Tong <i>Renmin University</i> Equation of motion series expansion of double time Green's function
09:30	Ying Jiang <i>Peking University</i> Tip-enhanced inelastic electron tunneling spectroscopy (experimental)	14:20	Yifeng Yang Institute of Physics, CAS Heavy-fermion physics in d-electron systems
09:50	Lin He <i>Beijing Normal University</i> Gauge field and non-Abelian gauge field in graphene (experimental)	14:40	Lili Wang Tsinghua University Interface enhanced electron-phonon coupling and high temperature
10:10	Photos		superconductivity in ultrathin FeSe films
10:25	Coffee break		on SrTiO ₃ (experimental)
10:40	Wei Ji <i>Renmin University</i> Tunable bandgap and exceptional vibration coupling in environmentally	15:00	Qing Zhao <i>Peking University</i> Self-healing of perovskite solar cells (experimental)
	stable few-layer PtS ₂	15:20	Coffee break
11:00	Yong Xu <i>Tsinghua University</i> Thermoelectric effect in topological insulators (theoretical)	15:40	Canli Song <i>Tsinghua University</i> Spectroscopic studies of superconduc- tivity in FeSe and Bi ₂ Sr ₂ CaCu ₂ O ₈ +delta (experimental)

24.10.15

Venue: M236, Institute of Physics, CAS

Chair	Xinzheng Li, Peking University
9:00	Yeliang Wang
	Institute of Physics, CAS
	Epitaxial growth of 2D crystalline
	materials: silicene, germanene,
	hafnene and PtSe ₂
9:20	Zheng Liu
	Tsinghua University
	First-principles study of several S=1/2
	kagome compounds (theoretical)
9:40	Zhimin Liao
	Peking University
	Transport properties of low-dimensional
	Dirac materials (experimental)
10:00	Tian Qian
	Institute of Physics, CAS
	Experimental discovery of Weyl

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