

M²S Satellite Workshop on Intrinsic Topological Superconductivity

IFW Dresden, Room D2E.27, 16-18 July 2026

Program v. 13072026

Program - Thursday 16 July

Session 1 – Chair: Büchner

09:00 **Welcoming words**

09:05 **Bernd Büchner** Surface superconductivity in PtBi₂

09:30 **Jeroen van den Brink** Topological surface superconductivity in PtBi₂

09:55 **Sergey Borisenko** The Two Faces of PtBi₂ Revealed by ARPES

10:20 Coffee break (30 min)

Session 2 – Chair: van den Brink

10:50 **Carsten Timm** t.b.a.

11:15 **Jorge Facio** t.b.a.

11:40 **Morten Holm Christensen** Kohn-Luttinger Superconductivity of Weyl Fermi Arcs in PtBi₂

12:05 **Posters & Snacks**

Session 3 – Chair: Büchner

14:00 **Tom Devereaux** Role of apical oxygens in bilayer nickelates: an x-ray investigation

14:25 **Joseph Dufouleur** t.b.a.

14:50 **Bat Chen Elshaleh** Scanning SQUID Microscopy on t-PtBi₂: metastability and emergent superconductivity

15:15 **Jarosław Juraszek** Evidence for superconductivity in the Weyl semimetal t-PtBi₂ from a local magnetization study

15:40 Coffee break (30 min)

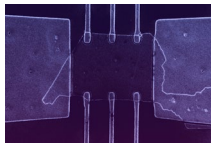
Session 4 – Chair: Dufouleur

16:10 **Dorsa Fartab** t.b.a.

16:35 **Marieke Altena** t.b.a.

17:00 **Oksana Kvitnytska** Probing the Origin of 'High-Tc' Superconductivity in Trigonal PtBi₂: A Point-Contact Study

17:25 End of the day's program



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Session 5 – Chair: Facio

09:00	Cosma Fulga	t.b.a.
09:25	Carmine Ortix	t.b.a.
09:50	Daniel Schultz & Iksu Chang	Superconductivity of Fermi arcs
10:15	Francesco Buccheri	Phonon-driven nodal surface superconductivity of Fermi arcs
10:40	Coffee break (30 min)	

Session 6 – Chair: Borisenko

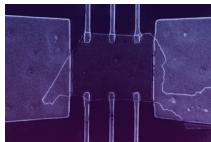
11:10	Uri Vool	Hybrid Circuits with van der Waals Superconductors
11:35	Philipp Hofmann	t.b.a.
12:00	Ralph Claessen	Surfaces go topological – atomic monolayers as 2D quantum materials
12:25	Felix Lüpke	t.b.a.
12:50	Lunch (70 min)	

Session 7 – Chair: Fartab

14:00	Federico Caglieris	t.b.a.
14:25	Audrey Grockowiak	Fermi surface of t-PtBi ₂ via quantum oscillations measurements
14:50	Yanina Fasano	Imaging the local field modulation in the PtBi _{2-x} Te _x superconducting family
15:15	Coffee break (30 min)	

Session 8 – Chair: Fasano

15:45	Sebastian Schimmel	Low-temperature scanning tunneling spectroscopy on the superconducting Weyl semimetal t-PtBi ₂
16:10	Xiaochun Huang	Surface-Extended Andreev Bound States Emerging from Intrinsic Surface Superconductivity of PtBi ₂
16:35	Jose Antonio Moreno Flores	Robust two-dimensional surface superconductivity and vortex lattice in the Weyl semimetal γ-PtBi ₂
17:00	Aparajita Singha	t.b.a.
17:25	End of the day's program	



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Program – Saturday 18 July

Session 9 – Chair: Wurmehl

09:00	Luminita Harnagea	Crystal Growth of γ -PtBi ₂ and its Doped Variants: Challenges and Perspectives
09:25	Catherine Witteveen	t.b.a.
09:50	Soumen Ash (tbc)	
10:15	Coffee break (30 min)	

Session 10 – Chair: van den Brink

10:45	Oleh Feia	Platinum-group metal bismuthides prediction using evolutionary algorithms and machine-learned interatomic potentials
11:35	Closing remarks & feedback	
11:50	End of workshop	