

**MC 42            A quantum leap: unraveling the mysteries of correlated electronic states in quantum materials through atomic-scale imaging and spectroscopy I**

Tuesday , 3 September, afternoon

Chair: Carolina de Almeida Marques

Room:

Hours	ID	Name	Type	Title
16h00	13511	Susanne Baumann	Invited	Atomic-scale ultrafast charge dynamics on surfaces measured with a scanning tunneling microscope
16H30	13423	Jiahao Yan	Oral	Excitons and superconductivity in Cu intercalated 1T-TiSe2
16h45	12918	Lihuan Sun	Invited	Determining spin-orbit coupling in graphene by quasiparticle interference imaging
17h15	12834	Andreas Kreisel	Invited	Unconventional superconducting pairing: Theoretical mechanisms and spectroscopic probes
17h45	13893	Peter Wahl	Oral	Suppression of superconductivity at the surface of Sr2RuO4
18h00	13887	Silke Bühler-Paschen	Invited	Strange metals – A platform to study entanglement in condensed matter?

**MC 42            A quantum leap: unraveling the mysteries of correlated electronic states in quantum materials through atomic-scale imaging and spectroscopy II**

Wednesday , 4 September, morning

Chair: Peter Wahl

Room:

Hours	ID	Name	Type	Title
10h30		Hermann Suderow	Invited	The feedback driven atomic scale Josephson microscope and other new insight from direct visualization
11h00	14418	Kazuhiro Fujita	Invited	Visualizing the finite-momentum pairing states in EuRbFe4As4
11h30	13691	Siyuan Wan	Oral	Visualization of incommensurate antiferromagnetic order in Fe doped Bi2Sr2CaCu2O8+ $\delta$
11h45	12679	Anuva Aishwarya	Invited	The strange case of the charge density waves in the superconductor UTe2
12h15	12713	Jian-Feng Ge	Oral	Atomic-scale confinement and breakdown of electronic charge density modulation
12h30	14350	Chi Ming Yim	Invited	Nanoscale Physics of the surfaces of delafossite PdCoO2 and PdCrO2



## MC 42      A quantum leap: unraveling the mysteries of correlated electronic states in quantum materials through atomic-scale imaging and spectroscopy III

Wednesday, 4 September, afternoon

Chair:

Room:

Hours	ID	Name	Type	Title
16h00	13175	Antonio Costa	Invited	Theory of spin excitations in van der Waals heterostructures
16h30	13126	Markus Ternes	Oral	Locally driven quantum phase transitions in a strongly correlated molecular monolayer
16h45	13327	Paul McClarty	Invited	Probing magnons in 2D magnets using quasi-particle interference
17h15	13668	Chenxiao Zhao	Oral	Construction and Manipulation of Low-Dimensional Many-Body Spin Systems Based on Nanographenes
17h30	13130	Büşra Arslan	Oral	Tuning Multiferroicity in Monolayer NiI <sub>2</sub>
17h45	12566	Jose Lado	Invited	Engineering and probing two-dimensional van der Waals heavy-fermion Kondo quantum matter

### Poster Session

Tuesday, 2 September, afternoon

ID	Name	Title
13652	Huiyu Zhao	AngstromPro: A versatile software for multilayer STM data management, and in-depth analysis