

Poster Directory Cluster Retreat 2022

Poster ID	Presenter	Affiliation	Poster Title
P1	F. Bärtl	HZDR	NMR investigations of the 2D Heisenberg antiferromagnet CuPOF under pressure
P2	M. Bahari	JMU	Topological bound states in the continuum in multiband superconductors
P3	P. Basteiro	JMU	Discrete Holography and Quantum Information in Optical Circuits
P4	C. Beneke	TUD	Divergence of the Grüneisen ratio at symmetry-enhanced first-order quantum phase transitions
P5	S. Betzold	JMU	Spin and phase textures of exciton-polaritons in hemispherical organic microcavities
P6	E. Carrillo Aravena	TUD	Crystal Structure Engineering in a Class of Weak 3D TI Candidate Materials
P7	T. Charvin	IFW	Magneto-transport measurements in (Bi,Sb)Te nanostructures
P8	J. Heißdörfer / E. Carrillo Aravena	JMU	Electronic Structure of Bismuth-rich Stacked Topological Insulator Candidates
P9	R. Claessen	JMU	Optical excitations in the QSH insulator bismuthene: carrier dynamics and excitons
P10	R.N. Das	JMU	Holographic Duality for Hyperbolic Tilings
P11	P. Eck	JMU	Higher order and Z_2 topological phases on the triangular lattice
P12	J. Erhardt	JMU	The phase diagram of In/SiC(0001): A road-map to large scale indenene
P13	C. Fuchs	JMU	Kondo interactions of quantum spin Hall edge channels with charge puddles
P14	J. Geck	TUD	Temperature-driven reorganization of electronic order in CsV_3Sb_5
P15	B. Geldiyev	JMU	Square Te adatom structure formed on Au(100)
P16	F. Goth	JMU	Higher Order Auxiliary Field Quantum Monte Carlo Methods
P17	A. Hausoel	IFW	Self energies from ARPES data via matrix elements calculations
P18	A. Hauspurg	HZDR	Magnetoelastic properties of $\alpha\text{-RuCl}_3$ probed by ultrasound
P19	M. Herz	TUD	In Search of Magnetic TIs: Manganese-Substituted Bismuth Compounds
P20	D. Inosov	TUD	Coupled ferromagnetic and antiferromagnetic quantum spin chains in the frustrated quasi-one-dimensional mineral antlerite, $\text{Cu}_3\text{SO}_4(\text{OH})_4$
P21	F. Jakubczyk	TUD	Spin-Fluctuation Mediated Pairing in Superconducting Infinite-Layer Nickelates

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P22	P. Kagerer	JMU	Large magnetic gap by the surface extension of a 3D TI with the layered Antiferromagnet MnBi_2Te_4
P23	M. Kick	JMU	High mobility 2DEG in HgTe quantum wells
P24	F. Koch	TUD	Quantum non-Hermitian topological sensors
P25	Y. Lee	IFW	Fabrication of twisted Josephson junction in stacked van der Waals cuprate superconductors
P26	C. Lehmann	TUD	Dynamically Induced Exceptional Phases in Quenched Interacting Semimetal
P27	J. Lindenthal	TUD	Optoelectronic pressure sensing utilising a one-dimensional topological interface
P28	S. Luther	HZDR	NMR and magnetization studies of helical correlations in LiYbO_2
P29	P. Matus	MPI-PKS	Skin effect as a probe of transport regimes in Weyl semimetals
P30	R. Meyer	JMU	Entanglement and Symmetries in Conformal Field Theory and Holography
P31	T. Micallo	TUD	Emergent non-Hermitian topology and boundary sensitivity in interacting Su-Schrieffer-Heeger chains
P32	P. Monteiro Consoli	TUD	Kondo breakdown transitions and phase separation tendencies in valence-fluctuating heavy-fermion metals
P33	B. Ozer	IFW	Fabrication of van-der-Waals 2D Heterostructures
P34	F. Pabst	TUD	New $\text{RE}_3\text{Fe}_3\text{Sb}_7$ magnets via mechanochemistry
P35	N. Perez Rodriguez	IFW	Thermoelectric performance of Bi_2Se_3 with magnetic inclusions
P36	B. Placke	MPI-PKS	Jamming Dynamics of Hardcore Spins
P37	M. Sahoo	IFW	Impact of Anti-Side disorder on Magnetic ground state and dimensionality In High Tc MnSb_2Te_4
P38	R. Schäfer	MPI-PKS	Symmetry protected exceptional points of interacting fermions
P39	C. Schmitt	JMU	Intercalation of indenene in SiC/graphene
P40	J. Stirnat	HZDR	Anomalous quantum oscillations and probable Pomeranchuk instability in the heavy fermion compound CeCoIn_5
P41	M. Tang	IFW	Fabrication and characterization of topological photonic devices
P42	G. Thakur	TUD	Near room temperature antiferromagnetic ordering in a new ruthenate $\text{Sr}_4\text{NaRu}_3\text{O}_{12}$
P43	A. Veyrat	IFW	Superconductivity in the type-I Weyl semi-metal trigonal-PtBi ₂
P44	A. Weigel	JMU	Wormholes from Berry phases in $\text{AdS}_3/\text{CFT}_2$
P45	S. Widmann	JMU	Topological States in Acoustic Systems
P46	Z. Xian	JMU	Complexity growth of operators in the SYK model and in JT gravity
P47	J. Zhu	MPI-PKS	Competition between Exchange and Correlation in magic-angle twisted bilayer graphene