International Workshop on Advances in Quantum Magnetism and Superconductivity (Parma, January 8–9, 2026)

At Auditorium "Centro Sant'Elisabetta" Parco Area delle Scienze 93/A - 43124 Parma

Website: https://advmagsc.eu

8 January			
14:30	**Welcome**		
Prof. Paolo Martelli Rector of the Univ. of Parma **Prof. Adriano Tomassini** Head of the Department of Mathematical, Physical and Computer Sciences, University of Parma **Prof. Stefano Carretta** Department of Mathematical, Physical and Computer Sciences, University of Parma			
Chairs: S. Carretta, M. Solzi			
15:00–15:30	**Roberto De Renzi**	University of Parma, Italy	*Quantum magnetism and superconductivity from the INPS viewpoint*
15:30–16:00	**Stephen Blundell**	University of Oxford, UK	*Spin eccolo: quantum coherence and the muon*
16:00–16:30	**Bernd Büchner**	IFW Dresden, Germany	*Topological superconductivity in $PtBi_2$*
16:30–16:50	**Coffee Break**		
Chairs: M. Riccò, P. Santini			
16:50–17:20	**Vesna Mitrović**	Brown University, USA	*Probing Ground State Wavefunction Evolution through Magnetic Phase Transition in Layered van der Waals Material*
17:20–17:50	**Pietro Carretta**	University of Pavia, Italy	*Very low-frequency fluctuations emerging from competing interactions: from iron-based superconductors to metal-organic frameworks*
17:50–18:10	**Roberto Caciuffo**	Italy	*XMCD and RIXS studies probing ground and excited states in the metallic ferromagnet $AmFe_2$*
18:10–18:30	**Renato Gonnelli**	Politecnico di Torino, Italy	*Multi-gap nature of superconductivity in gate-driven hydrogen intercalated 1T-$TiSe_2$*
20:00	**Dinner**	*I Tri Siochett - Ristorante Trattoria, Strada Comunale Farnese, 74/A, 43125 Parma PR*	
9 January			
Chairs: P. Bonfà, M. Ghidini			
09:30–09:50	**Hubertus Lütkens**	Paul Scherrer Institute, Switzerland	*Magnetic and charge density wave order in $La_3Ni_2O_7$, $La_2PrNi_2O_7$, and $La_4Ni_3O_{10}$ as a function of pressure and oxygen-isotope substitution*
09:50–10:10	**Adrian Hillier**	ISIS Neutron and Muon, UK	*Superconductivity from the first ISIS spectrometer to Super-MuSR*
10:10–10:30	**Giacomo Ghiringhelli**	Politecnico di Milano, Italy	*Antiferromagnetic order of $CaCuO_2$ studied by neutrons, muons and x-rays*
10:30–11:00	**Coffee Break**		
Chairs: G. Allodi, S. Sanna			
11:00–11:20	**Josè Lorenzana**	CNR, Rome, Italy	*Dynamic Rashba mechanism of superconductivity in incipient ferroelectrics*
11:20–11:40	**Giulia Serrano**	University of Florence, Italy	*Probing the interaction between Single Molecule Magnets and Superconductors by Synchrotron Radiation and Muon Spectroscopy*
11:40–12:00	**Marina Putti**	University of Genoa, Italy	*Sensing the vortex state of a vdW type-II superconductor by Fe-based Single Molecule Magnets*
12:00–12:20	**Ruggero Vaglio**	University of Naples, Italy	*Current redistribution effects in superconductors*
12:20–13:00	**Concluding remarks**		
13:00	**Conclusion**		