

International Conference
Quantum Systems in Extreme Conditions (QSEC2022)
NH Conference Hotel Bingen
14-18 November 2022

Sunday, Nov 13	Monday, Nov 14	Tuesday, Nov 15	Wednesday, Nov 16	Thursday, Nov 17	Friday, Nov 18						
MORNING SESSION	08:45 09:00	CONFERENCE OPENING & WELCOME									
	09:00 09:30	PRETALK TO KEYNOTE RUDI GRIMM [Universität Innsbruck, Austria] General introduction to XXX	09:00 09:30	PRETALK TO KEYNOTE GIANLUCA GREGORI [University of Oxford, UK] General introduction to XXX	09:00 09:30	PRETALK TO KEYNOTE MARIANNA SAFRONOVA [University of Delaware, USA] General introduction to XXX	09:00 09:30	PRETALK TO KEYNOTE DAM THANH SON [University of Chicago, USA] General introduction to XXX	09:00 09:30	PRETALK TO KEYNOTE THIERRY GIAMARCHI [Université de Genève, Switzerland] General introduction to XXX	
	09:40 10:30	KEYNOTE TALK RUDI GRIMM [Universität Innsbruck, Austria] "Ultracold fermions: From polarons to novel superfluids"	09:40 10:30	KEYNOTE TALK GIANLUCA GREGORI [University of Oxford, UK] "Primordial magnetic fields, Hawking radiation and particles beyond the standard model. What we can learn with high-power lasers"	09:40 10:30	KEYNOTE TALK MARIANNA SAFRONOVA [University of Delaware, USA] "Quantum sensors in the laboratory and in space for new-physics discoveries"	09:40 10:30	KEYNOTE TALK DAM THANH SON [University of Chicago, USA] "Unnuclear physics: conformal symmetry in nuclear reactions"	09:40 10:30	KEYNOTE TALK THIERRY GIAMARCHI [Université de Genève, Switzerland] "Quantum transport and cold atomic gases"	
	10:30 11:00	MORNING COFFEE BREAK									
	11:00 11:30	DAVID CLÉMENT [Laboratoire Charles Fabry, France] "Observation of Bogoliubov atom pairs: revealing the interplay of quantum fluctuations and interaction in an interacting Bose gas"	11:00 11:30	ALINA CZAJKA [National Centre for Nuclear Research, Poland] "Characteristics of early time dynamics in relativistic heavy ion collisions"	11:00 11:30	TOMAS JEZO [WWU Münster] "Nuclear parton distribution functions with nCTEQ"	11:00 11:30	ELINA FUCHS [Leibniz Universität Hannover, Germany] "Atomic precision spectroscopy for New Physics searches"	11:00 11:30	FEDERICA SURACE [IQIM at Caltech, USA] "Quantum simulation of particle collisions"	
	11:30 12:00	GIULIANO GIACALONE [Universität Heidelberg, Germany] "How many particles to make a fluid? Searching for hydrodynamic behavior in mesoscopic ultracold gases"	11:30 12:00	KIRILL BOGUSLAVSKI [TU Wien, Austria] "Gluon, fermion and scalar spectral functions at strong fields"	11:30 12:00	TAPIO SIMULA [Swinburne University of Technology, Australia] "Quantum, Gravity, and Quantised Vortices"	11:30 12:00	NATALIA ORESHKINA [MPIK Heidelberg, Germany] "Rigorous QED for the spectra of heavy muonic atoms"	11:30 12:00	LAURA BATINI [Universität Heidelberg, Germany] "The role of quantum effects in the instability dynamics of two coupled Bose-Einstein condensates"	
	12:00 12:30	SANDRA BRANDSTETTER [Universität Heidelberg, Germany] "A mesoscopic fluid of 10 fermions"	12:00 12:30	ANDREAS KIRCHNER [Universität Heidelberg/Jena, Germany] "Extending the fluid dynamic description of heavy-ions collisions to times before the collision"	12:00 12:30	HELMUT STROBEL [Universität Heidelberg, Germany] "Spin superfluidity and two types of universality far from equilibrium in an ultracold spin-1 BEC"	12:00 12:30	GERHARD ZÜRN [Universität Heidelberg, Germany] "Engineering interactions in an isolated many-body spin system"	12:00 12:30	MATTHIAS DIEZ [Universität Graz, Austria] "What are the time-scales of particle formation in the Schwinger effect?"	
	12:30 14:30	LUNCH (at the Hotel)									
	AFTERNOON SESSION	14:30 15:00	PRETALK TO KEYNOTE LAURA FABIETTI [TUM München, Germany] General introduction to XXX	14:30 15:00	ESTHER MENZ [Helmholtz Institute Jena, Germany] "High-Resolution DR Spectroscopy of Ne ⁴⁺ at CRYRING@ESR"	SOCIAL PROGRAM: EXCURSIONS	14:30 15:00	FELIX KARBSTEIN [Helmholtz Institute Jena, Germany] "Quantum vacuum effects in strong electromagnetic fields"	AFTERNOON COFFEE BREAK	14:30 15:00	JASMINE BREWER [CERN, Switzerland] "Scaling and adiabaticity in a rapidly expanding gluon plasma"
		15:10 16:00	KEYNOTE TALK LAURA FABIETTI [TUM München, Germany] "How to employ the LHC to study the many body problem in nuclear physics"	15:00 15:30	FEDERICA CAPELLINO [Universität Heidelberg, Germany] "A fluid-dynamic approach to heavy-quark diffusion in the quark-gluon plasma"		15:00 15:30	THIMO PREIS [Universität Heidelberg, Germany] "Stable and unstable excitations of nonthermal fixed points"			
		16:00 16:45	AFTERNOON COFFEE BREAK								
		16:45 17:15	RAPHAELLE BAILHACHE [TU Darmstadt, Germany] "Real and virtual direct photon measurements with ALICE at the LHC"	16:45 17:15	1-minute Slide Presentations for Poster Session I		16:45 17:15	1-minute Slide Presentations for Poster Session II			
		17:15 17:45	JULIAN SCHMITT [University of Bonn, Germany] "Compressibility and the equation of state of an optical quantum gas in a box"	17:15 18:45	POSTERSESSION I		17:15 18:45	POSTERSESSION II			
		17:45 18:15	KEISUKE FUJII [Universität Heidelberg, Germany] "Universal induced interaction between heavy polarons in superfluids"								
19:00		DINNER (at the NH Hotel)									
20:30	SOCIAL EVENT: SCIENCE PUB QUIZ	20:00	INTERNAL SESSION: MEETING OF CRC1225 PRINCIPAL INVESTIGATORS	19:00 24:00	CONFERENCE DINNER	19:00	DINNER (at the NH Hotel)				

17:00 -19:00
REGISTRATION & WELCOME RECEPTION