PARALLEL SESSION 1 (WEDNESDAY, MARCH 29TH - 14:00-16:00)				
SESSION NAME	**TIME**	**PRESENTER**	**TITLE OF ORAL PRESENTATION**	**ROOM**
Physics of Materials and Condensed Matter Physics I				**Small Auditorium**
	14:00-14:15	R. Tuovinen	Time-linear scaling nonequilibrium Green's function theory for quantum transport	
SESSION CHAIR	14:15-14:30	P. Virtanen	Nonlinear σ model for disordered systems with spin-orbit coupling	
Prof. Tapio Rantala	14:30-14:45	P. M. Vecsei	Lee-Yang theory of Quantum Phase Transitions with Quantum Network States	
	14:45-15:00	K. Swaminathan	Signatures of many-body localization of quasiparticles in a flat band superconductor	
	15:00-15:15	V. Pyykkönen	Suppression of non-equilibrium quasiparticle transport in flat band superconductors	
	15:15-15:30	R. Koch	Hamiltonian learning of quantum dots in a minimal Kitaev chain with conditional GANs	
	15:30-15:45	R. Rantanen	Transitions in vortex skyrmion structures in superfluid 3He-A	
	15:45-16:00	G. Chen	Topological spin excitations in non-Hermitian spin chains with a generalized kernel polynomial algorithm	
Particle, Atomic, and Nucler Physics I				**Duetto 1**
	14:00-14:15	M. Hukkanen	Neutron-rich refractory nuclei studied via precision mass measurements at JYFLTRAP	
SESSION CHAIR	14:15-14:30	J.K.A. Ruotsalainen	Double-beta decay Q-value measurement of 104Ru with the JYFLTRAP Penning trap	
Dr. Wladislaw Henryk Trzaska	14:30-14:45	M. C. House	Study of Fission Fragment Mass & Energy distribution in Pre-Actinide Region.	
	14:45-15:00	A. Hossain	Photo-assisted negative ion production in caesium sputter negative ion source	
	15:00-15:15	T. Enqvist	High-precision Solar pp neutrino Measurement with SERAPPIS	
	15:15-15:30	L. Huhta	Dijet invariant mass in pp and p–Pb collisions at √sNN = 5.02 TeV with the ALICE detector at the LHC at CERN	
	15:30-15:45	P. Virtanen	ERO2.0 Modelling of medium-Z impurity sources in JET.	
	15:45-16:00	Andreas Molander	The new ALICE Fast Interaction Trigger in LHC Run 3	
	16:00-16:15	O. Hyvärinen	Fusion-born alpha particle power loads in ITER: sensitivity on the radial displacement of wall tiles and field coils.	
Scientific Computing, Machine Learning and Big Data				**Duetto 2**
	14:00-14:15	F. Aikebaier	Extracting real-space correlation entropy with machine learning in Kondo impurity problems	
SESSION CHAIR	14:15-14:30	V. Besel	Curation of big data for atomospheric science purposes	
Prof. Patrick Rinke	14:30-14:45	J. Heikonen	LUMI supercomputer update	
	14:45-15:00	L. Kotipalo	Adaptive mesh refinement in Vlasiator	
	15:00-15:15	U. Saha	A study of neutron and ion irradiation induced atomic recoilspectra with newly developed tools RMINDD and pkaESSRIM for materials modelling	
	15:15-15:30	M. Sipilä	Materials discovery using natural language processing	
New Methods for Experimental research and Synchrotron Radiation				**Riffi**
	14:00-14:15	V.A. Virtanen	Multi-Reflection Time-of-Flight Mass Separator for radioactive nuclei at the IGISOL facility	
SESSION CHAIR	14:15-14:30	J. Louko	Spectroscopy of neutron deficient actinium isotopes	
Dr. Minna Patanen	14:30-14:45	X. An	Deuterium induced defects and embrittlement behavior of a Co-free high entropy alloy	
	14:45-15:00	A.-J. Kallio	New avenues for materials research opened by operando x-ray absorption spectroscopy	
	15:00-15:15	L. Palmolahti	Thermally induced simultaneous reduction and crystallization of amorphous TiO2	
	15:15-15:30	M. Patanen	Surface composition of size-selected aerosol particles studied in situ using synchrotron radiation X-ray photoelectron spectroscopy	
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