

Physics of fundamental Symmetries and Interactions - PSI2019

Monday 21 October 2019

Session: Mo - 1 - WHGA/001 - Auditorium (09:00 - 10:35)

-Conveners: Convener: Geoffrey Greene

time	[id] title	presenter
09:00	[157] Welcome	Prof. KIRCH, Klaus
09:05	[112] Overview of worldwide efforts in the search for charged lepton flavour violation	PAPA, Angela
09:35	[5] BASE: High-Precision Comparisons of the Fundamental Properties of Antiprotons and Protons	ULMER, Stefan
10:05	[19] Ultracold but cool – Pioneering experiments with ultracold neutrons	GELTENBORT, Peter

Session: Mo - 2 - WHGA/001 - Auditorium (11:05 - 12:45)

-Conveners: Convener: Stephanie Roccia

time	[id] title	presenter
11:05	[16] Searching for New Particles and Forces with Polyatomic Molecules	HUTZLER, Nicholas
11:35	[67] Measurement of the Permanent Electric Dipole Moment of the ^{129}Xe Atom	ALLMENDINGER, Fabian
11:55	[110] A new measurement of the permanent electric dipole moment of ^{129}Xe using ^3He comagnetometry and SQUID detection	ROLFS, Katharina
12:15	[95] PHYSICS BEYOND SM WITH KAONS FROM NA62	LAZZERONI, Cristina

Session: Mo - 3 - WHGA/001 - Auditorium (14:30 - 16:10)

-Conveners: Convener: Georg Bison

time	[id] title	presenter
14:30	[41] Gravity tests at short distances using ultracold neutrons: A review of the qBounce experiment	JENKE, Tobias
15:00	[147] Status of lattice results on contributions of CP violating operators to nEDM	GUPTA, Rajan
15:20	[146] Searching for the electric dipole moment of the neutron - a landscape overview	FRANKE, Beatrice
15:50	[58] The search for a neutron edm at ORNL using dilute solution of ^3He as a co-magnetometer	Prof. GOLUB, Robert

Session: Mo - 4 - WHGA/001 - Auditorium (16:40 - 18:00)

-Conveners: Convener: Niklaus Berger

time	[id] title	presenter
16:40	[3] Stringent tests of bound-state QED using highly charged ions	STURM, Sven
17:10	[4] Nuclear structure corrections in muonic atoms	BACCA, Sonia

17:40	[28] Status of the muX project at PSI	WAUTERS, Frederik
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Tuesday 22 October 2019

Session: Tu - 1 - WHGA/001 - Auditorium (09:00 - 10:30)

-Conveners: Convener: Dieter Ries

time	[id] title	presenter
09:00	[137] Measurement of the nucleon axial coupling in neutron beta decay	MÄRKISCH, Bastian
09:30	[90] Improved determination of the β -v angular correlation coefficient a in free neutron decay with the aSPECT spectrometer	Prof. HEIL, Werner
09:50	[68] Pendellosung Interferometry as a Probe for New Interactions	Dr HEACOCK, Benjamin
10:10	[12] The n3He experiment---a new era in Hadronic Parity Violation	CRAWFORD, Christopher

Session: Tu - 2 - WHGA/001 - Auditorium (11:00 - 12:40)

-Conveners: Convener: Angela Papa

time	[id] title	presenter
11:00	[63] The proton radius puzzle	ANTOGNINI, Aldo
11:45	[159] Hydrogen Lambshift	HESSELS, Eric
12:15	[141] Status of MUSE at PSI	GOLOSSANOV, Alexander

Session: Tu - 3 - WHGA/001 - Auditorium (14:30 - 16:30)

-Conveners: Convener: Sonia Bacca

time	[id] title	presenter
14:30	[108] Fundamental symmetries and exotics physics in atoms	SAFRONOVA, Marianna
15:00	[107] Optical lattice clocks and their applications	Prof. KATORI, Hidetoshi
15:30	[92] g -factor of Boronlike Argon 40 Ar ¹³⁺ at ALPHATRAP	ARAPOGLOU, Ioanna
15:50	[83] High-Precision Mass Measurements on Light Nuclei with the LIONTRAP experiment	HEISSE, Fabian

Wednesday 23 October 2019

Session: Wd - 1 - WHGA/001 - Auditorium (09:00 - 10:40)

-Conveners: Convener: Peter Kammel

time	[id] title	presenter
09:00	[130] Rare pion decay studies in the PEN experiment	POCANIC, Dinko
09:30	[20] Testing lepton flavor universality with pion decays	Prof. BRYMAN, Douglas
10:00	[1] The Mu2e experiment	Dr DI FALCO, Stefano
10:20	[143] AICap: Measurements of the particle emission spectra following nuclear muon capture for muon-to-electron conversion experiments	QUIRK, John

Session: Wd - 2 - WHGA/001 - Auditorium (11:10 - 12:50)

-Conveners: Convener: Gilberto Colangelo

time	[id] title	presenter
11:10	[24] Measurement of the fine-structure constant as test of the standard model	MUELLER, Holger
11:40	[87] $\tau \rightarrow \mu \mu \mu$ at a rate of one out of 10^{14} τ decays?	FAEL, Matteo
12:00	[169] High-precision QED prediction for low-energy lepton experiments	ULRICH, Yannick
12:20	[64] Dyssymetry: Unleashing Extra Yukawa Couplings	Prof. HOU, George W.S.

Session: Wd - 3 - WHGA/001 - Auditorium (14:30 - 16:10)

-Conveners: Convener: Klaus Jungmann

time	[id] title	presenter
14:30	[145] MuSun: Analysis of the First Production Dataset	Dr RYAN, Rachel
15:00	[102] The Muon g-2 experiment at Fermilab: Overview and status update	WINTER, Peter
15:30	[129] Explaining $(g-2)_e$ and $(g-2)_\mu$ together naturally	HORMIGOS-FELIU, Clara
15:50	[10] Pseudoscalar contribution to the muon g-2	HAGELSTEIN, Franziska

Session: Wd - 4 - WHGA/001 - Auditorium (16:40 - 17:50)

-Conveners: Convener: Beatrice Franke

time	[id] title	presenter
16:40	[89] Flavour Anomalies: status and prospects	Prof. SERRA, Nicola
17:10	[13] Combined explanations of $(g-2)_\mu$, $(g-2)_e$ and implications for a large muon EDM	CRIVELLIN, Andreas

Thursday 24 October 2019

Session: Th - 1 - WHGA/001 - Auditorium (09:00 - 10:30)

-Conveners: Convener: Philipp Schmidt-Wellenburg

time	[id] title	presenter
09:00	[125] Overview of recent efforts and results of the neutron lifetime measurements	SAUNDERS, Alexander
09:30	[42] Neutron lifetime measuring experiments with UCN magnetic storage	Mr EZHOV, Victor
09:50	[114] Testing the weak equivalence principle using Gravitationally bound quantum states of ultracold neutrons	KAMIYA, Yoshio
10:10	[59] Frequency shift at interaction of waves with accelerating object	FRANK, Alexander

Session: Th - 2 - WHGA/001 - Auditorium (11:10 - 12:50)

-Conveners: Convener: Eberhard Widmann

time	[id] title	presenter
11:10	[104] Fundamental Physics with Cold Antihydrogen: 20 years of AD and a new era with ELENA	FUJIWARA, Makoto
11:40	[31] Neutron-antineutron oscillations with ultracold and cold neutrons	FOMIN, Alexey
12:00	[26] Test of the crystal-diffraction ultra-precise neutron spectrometry.	Prof. VORONIN, Vladimir
12:20	[18] In search for BSM Physics in the beta decay of ^{45}Ca	Mr BIRGE, Noah

Session: Th - 3 - WHGA/001 - Auditorium (14:30 - 16:00)

-Conveners: Convener: Anna Soter

time	[id] title	presenter
14:30	[39] Cyclotron Radiation Emission Spectroscopy for measuring neutrino mass and searching for chirality-flipping interactions	Dr NOVITSKI, Elise
15:00	[57] Test of lepton universality and search for light neutral bosons with TREK/E36 at J-PARC	Prof. KOHL, Michael
15:20	[103] The BL2 Experiment: An In-Beam Measurement of the Neutron Lifetime	CAYLOR, Jimmy
15:40	[23] UCNTau status and plans	MORRIS, Christopher

Session: Th - 4 - WHGA/001 - Auditorium (16:30 - 18:00)

-Conveners: Convener: Michael Jentschel

time	[id] title	presenter
16:30	[15] The CKM unitarity problem: A trace of new physics at the TeV scale?	Prof. BEREZHIANI, Zurab
17:00	[11] Some recent approaches to ultralight bosonic dark matter searches	BUDKER, DMITRY
17:30	[163] Winner of Poster prizes	

Friday 25 October 2019

Session: Fr - 1 - WHGA/001 - Auditorium (09:00 - 10:40)

-Conveners: Convener: Satoshi Mihara

time	[id] title	presenter
09:00	[36] Exploring the Dark Matter ALPs	JAECKEL, Joerg
09:30	[148] Searches for the neutrinoless double beta decay - status and prospects	Prof. BAUDIS, Laura
10:00	[33] Present status and future prospect of Neutrino-4 experiment search for sterile neutrino	SEREBROV, Anatolii
10:20	[127] muCool: A novel low-energy muon beam for future precision experiments	Ms BELOSEVIC, Ivana

Session: Fr - 2 - WHGA/001 - Auditorium (11:10 - 12:50)

-Conveners: Convener: Sacha Davidson

time	[id] title	presenter
11:10	[22] Precision measurements in molecular hydrogen	MERKT, Frédéric
11:40	[77] 25 years of ultimate-resolution exotic atom X-ray spectroscopy	Prof. GOTTA, Detlev
12:10	[53] Precise spectroscopy of muonium hyperfine structure using Kr-He mixture gas	Mr SEO, Shun
12:30	[113] Positronium and Muonium precision spectroscopy: Measurement of the 1S-2S and excited state hyperfine transitions	BURKLEY, Zakary