

Physics of fundamental Symmetries and Interactions - PSI2022

Monday, October 17, 2022

Session - WHGA/001 - Auditorium (9:00 AM - 10:35 AM)

-Conveners: Toshinori Mori

time	[id] title	presenter
9:00 AM	[324] Welcome	KIRCH, Klaus
9:05 AM	[203] The high-intensity muon beam (HIMB) project at PSI	KNECHT, Andreas
9:35 AM	[213] COMET - mu-e conversion search at J-PARC	COLLABORATION, COMET MIHARA, Satoshi
10:05 AM	[181] The Search for Charged Lepton-Flavour Violation with the Mu3e Experiment	WAUTERS, Frederik

Session - WHGA/001 - Auditorium (11:05 AM - 12:35 PM)

-Conveners: Dieter Ries

time	[id] title	presenter
11:05 AM	[196] Constraining CP violation within effective field theories	STOFFER, Peter Matthias
11:35 AM	[201] EDM searches in atoms and molecules: an overview	VUTHA, Amar
12:05 PM	[179] An Overview of the n2EDM Experiment at PSI	THORNE, Jacob

Session - WHGA/001 - Auditorium (2:00 PM - 4:00 PM)

-Conveners: Marie-Cécile Piro

time	[id] title	presenter
2:00 PM	[318] Recent activities of the Nuclear and Particle Physics group of the ILL	Dr JENTSCHEL, Michael
2:30 PM	[207] Testing QED and Beyond with Exotic Atoms	PAUL, Nancy
3:00 PM	[225] Zero-Field and High-Field Precision Measurements of Muonium Hyperfine Structure at J-PARC	NISHIMURA, Shoichiro
3:30 PM	[194] The Mu-MASS experiment at PSI: Current status and latest results	CRIVELLI, Paolo

Session - WHGA/001 - Auditorium (4:30 PM - 6:00 PM)

-Conveners: Tsutomu Mibe

time	[id] title	presenter
4:30 PM	[243] MUSE, the MUon proton Scattering Experiment	DOWNIE, Evangeline
5:00 PM	[326] MUSE, the muon science facility in MLF J-PARC	KAWAMURA, Naritoshi
5:20 PM	[274] New Measurements of Muonic Helium Atom Hyperfine Structure at J-PARC MUSE	STRASSER, Patrick
5:40 PM	[199] Muonic atom spectroscopy with radioactive targets	VOGIATZI, Stergiani Marina

Tuesday, October 18, 2022

Session: PSI2022- FIPS@CERN Joint Session - WHGA/001 - Auditorium (9:00 AM - 10:30 AM)

-Conveners: Philipp Schmidt-Wellenburg

time	[id] title	presenter
9:00 AM	[287] The Neutron Lifetime puzzle and the Latest Results of the UCNTau Experiment	Prof. LIU, Chen-Yu
9:30 AM	[188] The neutron decay problems and new physics	BEREZHIANI, Zurab
10:00 AM	[202] Neutron EDM Searches	MARTIN, Jeffery

Session: PSI2022 - FIPS@CERN Joint Session - WHGA/001 - Auditorium (11:00 AM - 12:00 PM)

-Conveners: Malte Hildebrandt

time	[id] title	presenter
11:00 AM	[306] The Fermilab Muon g-2 Experiment: Status and Outlook	CORRODI, Simon
11:30 AM	[339] The MEGII experiment and exotic searches	PAPA, Angela

Session: FIPS@CERN - PSI Joint Session - WHGA/001 - Auditorium (1:30 PM - 4:00 PM)

-Conveners: Georg Bison

time	[id] title	presenter
1:30 PM	[327] Overview of EDM experiments	FLAMBAUM, Victor
2:00 PM	[328] Precision measurements of the fine structure constant	CLADÉ, Pierre
2:30 PM	[329] Novel approaches to GW detection (atom interferometry)	BUCHMULLER, Oliver
3:00 PM	[330] Search for ultra-light FIPs with clocks & cavities	YE, Jun
3:30 PM	[331] Ultra-light FIPs: the FIP Physics Centre approach	POSPELOV, Maxim

Wednesday, October 19, 2022

Session - WHGA/001 - Auditorium (9:00 AM - 10:40 AM)

-Conveners: Tobias JENKE

time	[id] title	presenter
9:00 AM	[317] Atomic clocks, precision measurements and tests of the Standard Model	MEHLSTÄUBLER, Tanja E.
9:30 AM	[260] Recent Developments in Beam Neutron Lifetime Experiments	WIETFELDT, Fred
10:00 AM	[271] qBounce: Using GRS to investigate bouncing neutrons on mirrors	MICKO, Jakob
10:20 AM	[223] Towards a neutron electric dipole moment measurement with an advanced ultracold neutron source at TRIUMF	Dr HIGUCHI, Takashi

Session - WHGA/001 - Auditorium (11:10 AM - 1:00 PM)

-Conveners: Satoshi Mihara

time	[id] title	presenter
11:10 AM	[334] Overview and new results H2 molecular spectroscopy	MERKT, Frederic
11:40 AM	[197] Hadronic contributions to the anomalous magnetic moment of the muon	HOFERICHTER, Martin
12:10 PM	[195] High-precision Penning-trap experiment PENTATRAP	ELISEEV, Sergey
12:40 PM	[222] LUXE: A new experiment to study non-perturbative QED in electron-laser and photon-laser collisions	FLECK, Kyle

Session - WHGA/001 - Auditorium (2:30 PM - 4:10 PM)

-Conveners: Michael Jentschel

time	[id] title	presenter
2:30 PM	[340] The LEMING experiment	SOTER, Anna Prof. SOTER, Anna SOTER, Anna SOTER, Anna
3:00 PM	[204] Proton structure in and out of muonic hydrogen	HAGELSTEIN, Franziska
3:30 PM	[275] Progress Towards the Development of the nEDM@SNS Experiment	PLASTER, Brad
3:50 PM	[305] The neutron electric dipole moment experiment at Los Alamos National Laboratory	WONG, Douglas

Session - WHGA/001 - Auditorium (4:40 PM - 6:10 PM)

-Conveners: Kenji Mishima

time	[id] title	presenter
4:40 PM	[180] B anomalies and Lepton Flavour Universality	SMITH, Eluned
5:10 PM	[215] Latest results and precision measurements with NA62	MARCHEVSKI, Radoslav
5:30 PM	[183] Searching for the permanent electric dipole moment using laser cooled francium atoms	Dr NAGAHAMA, Hiroki

5:50 PM	[285] BRAND – search for exotic couplings in weak interactions using the transverse electron polarization in the decay of free neutrons	BODEK, Kazimierz
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Thursday, October 20, 2022

Session - WHGA/001 - Auditorium (9:00 AM - 10:40 AM)

-Conveners: Claude Amsler

time	[id] title	presenter
9:00 AM	[314] Why do we want to search for a muon EDM ?	CRIVELLIN, Andreas
9:30 AM	[178] Muon g-2 and EDM at J-PARC	MIBE, Tsutomu
10:00 AM	[316] MuSun: Muon Capture on the Deuteron	KAMMEL, Peter
10:20 AM	[268] Hyperfine Structure Measurements on Hydrogen and Deuterium for CPT and Lorentz Invariance tests	SIMON (FOR THE ASACUSA COLLABORATION), Martin

Session - WHGA/001 - Auditorium (11:10 AM - 12:50 PM)

-Conveners: Torsten Soldner

time	[id] title	presenter
11:10 AM	[313] New Searches for Neutron Oscillations at ORNL	BROUSSARD, Leah
11:40 AM	[245] Search for neutron disappearance into sterile states	RIENÄCKER, Ingo
12:00 PM	[216] Neutron beta decay with pulsed cold neutron beams	MÄRKISCH, Bastian
12:30 PM	[250] Reanalysis of the of $\beta\text{-}\bar{\nu}_e$ angular correlation measurement aSPECT with new constraints on Fierz interference	SCHMIDT, Ulrich

Session - WHGA/001 - Auditorium (2:30 PM - 3:50 PM)

-Conveners: Sacha Davidson

time	[id] title	presenter
2:30 PM	[208] Update on the PEN experiment: A precision measurement of rare pion decays	Dr GLASER, Charles
3:00 PM	[315] Overview of Pienu results and the PIONEER project	MALBRUNOT, Chloe MALBRUNOT, Chloé
3:30 PM	[220] The Mu2e experiment	DI FALCO, Stefano

Session - WHGA/001 - Auditorium (4:20 PM - 6:00 PM)

-Conveners: Kazimierz Bodek

time	[id] title	presenter
4:20 PM	[182] Dark matter: the hunt for the unknown	PIRO, Marie-Cécile
4:50 PM	[211] Dark sector studies with the PADME experiment	DOMENICI, Danilo
5:10 PM	[304] Discovering Neutrinoless Double-Beta Decay in Ge-76 with the LEGEND Experiment	REDCHUK, Mariia
5:30 PM	[187] Search for Neutrinoless Double Beta Decay of ^{130}Te : latest results from the CUORE experiment	GHISLANDI, Stefano

Friday, October 21, 2022

Session - WHGA/001 - Auditorium (9:00 AM - 10:40 AM)

-Conveners: Aldo Antognini

time	[id] title	presenter
9:00 AM	[198] Physics program at MESA in Mainz	BERGER, Niklaus
9:30 AM	[297] New Limit on Axion-Like Dark Matter using Cold Neutrons	Mr SCHULTHESS, Ivo
9:50 AM	[240] The Search for Neutron - Anti-Neutron Oscillations at the European Spallation Source	Mr WAGNER, Richard
10:10 AM	[217] Direct neutrino mass measurements	WIESINGER, Christoph

Session - WHGA/001 - Auditorium (11:10 AM - 12:35 PM)

-Conveners: Peter Kammel Kammel

time	[id] title	presenter
11:10 AM	[309] Cyclotron radiation emission spectroscopy for neutrino mass measurement and exotic interaction searches	FERTL, Martin
11:30 AM	[319] Studies of Exotic Physics with Antiprotons and Protons	ULMER, Stefan
12:00 PM	[332] Spectroscopic and Gravitational studies of antimatter: the ALPHA antihydrogen experiment at CERN	HANGST, Jeffrey
12:30 PM	[333] Farewell	