Session Program

Oct 16 – 20, 2016

Physics of fundamental Symmetries and Interactions - PSI2016

Poster Session

Tue, October 18

5:40 PM

Poster Session: BBQ and Drinks

Session

5:40 – 5:41 PM

Thin scintillating fibers coupled to SiPMs for fast beam monitoring and timing purposes

Speaker
Giada Rutar

5:41 – 5:42 PM

A Potassium magnetometry based current source for the nEDM experiment at PSI

Speaker
Mr Peter Koss

5:42 – 5:43 PM

Detector characterization and background studies for β-decay experiments

Speaker
Mr Noah Birge

5:43 – 5:44 PM

VUV-sensitive MPPCs for liquid xenon detector in MEG II experiment

Speaker
Mr Shinji Ogawa

5:44 – 5:45 PM

MEG II experiment: Upgraded Liquid Xe Detector with SiPM readout

Speaker
Dr Kei Ieki

5:45 – 5:46 PM

Tracking for the Mu3e experiment

Speaker
Dr Alexandr Kozlinskiy

5:46 – 5:47 PM

Measurement of the weak magnetism form factor in 6He decay

Speaker
Ms XUEYING Huyan

5:47 – 5:48 PM

NoMoS: Beyond the Standard Model Physics in Neutron Decay

Speaker
Dr Gertrud Konrad

5:48 – 5:49 PM

The new magnetic field optimisation procedure of the nEDM experiment at PSI

Speaker
Ms Elise Wursten

5:49 – 5:50 PM

Precise central unit of the DAQ system for the n2EDM experiment at PSI

Speakers
Dr Jacek Zejma, Dr Jochen Krempel, Mr Michał Rawlik

5:50 – 5:51 PM
Development of a double-cusp trap for ground-state hyperfine spectroscopy of antihydrogen atoms

Speaker
Dr Naofumi Kuroda

5:51 – 5:52 PM
Development of the measurement system toward the electron EDM search with laser cooled Fr atoms

Speaker
Dr Takeshi Inoue

5:52 – 5:53 PM
High-Precision Mass Measurements with PENTATRAP

Speakers
Mr Alexander Rischka, Ms Rima Schüssler

5:53 – 5:54 PM
Search for a violation of the Pauli Exclusion Principle with electrons

Speaker
Mr Andreas Pichler

5:54 – 5:55 PM
New Precise Measurement of Muonium Hyperfine Structure at J-PARC

Speaker
Yasuhiro Ueno

5:55 – 5:56 PM
High precision analytical description for beta spectroscopy probing (Beyond) Standard Model physics.

Speaker
Mr Leendert Hayden

5:56 – 5:57 PM
Searching for axion-like particles with the nEDM experiment at the Paul Scherrer Institute

Speakers
Mr Michał Rawlik, Mr Nicholas Ayres

5:57 – 5:58 PM
Development of a dual isotope rubidium co-magnetometer toward electron EDM search using laser-cooled francium

Speaker
Ms Aiko Uchiyama

5:58 – 5:59 PM
Magnetometry for a next generation neutron EDM experiment

Speaker
Dr Georg Bison

5:59 – 6:00 PM
Neutron interferometry constrains dark energy chameleon fields

Speaker
Dr Tobias JENKE

6:00 – 6:01 PM **Muon Beam Monitoring Using Luminophore Foils at PSI**

Speaker
Zachary Donovan Hodge

6:01 – 6:02 PM **Neutronics Studies for the Nab Experiment**

Speaker
Elizabeth Mae Scott

6:02 – 6:03 PM **Development of a high-brightness muonium beam**

Speaker
Mr Narongrit Ritjoho

6:03 – 6:04 PM **Experiments using two Bradbury Nielsen gates**

Speaker
Dr Wolfgang Schott

6:04 – 6:05 PM
Development of an optical dipole force trap system towards search for an electron EDM using laser-cooled francium

Speaker
Mr Kosuke Sakamoto

6:05 – 6:06 PM
Realization of Ramsey-type Gravity Resonance Spectroscopy within qBounce

Speaker
Mr Tobias Rechberger

6:06 – 6:07 PM **Measurement of Direct Muon Atomic Radiative Capture in Lead**

Speaker
Zachary Donovan Hodge

6:07 – 6:08 PM **Monte Carlo Programs for Muon Decays at NLO**

Speaker
Mr Yannick Ulrich

6:08 – 6:09 PM
Towards precision beta-decay measurements with laser-cooled argon-35

Speaker
Ms Florence Lenaers

6:09 – 6:10 PM **The neutron lifetime experiment tSPECT**

Speaker
Mr Jan Peter Karch

6:10 – 6:11 PM
Detection of low-energy protons within the neutron β-decay spectrometer aSPECT

Speaker
Dr Romain Maisonobe

6:11 – 6:12 PM
News on the laser based Hg Co-magnetometer for the nEDM experiment at PSI

Speaker
Ms Sybille Komposch

6:12 – 6:13 PM
Snapshots of a Quantum Bouncing Ball realized with the qBounce gravity spectrometer

Speaker
Mr Martin Thalhammer

6:13 – 6:14 PM
Testing Space-Time Non-Commutativity with High Precision Spectroscopy

Speaker
Dr Mustafa MOUMNI

6:14 – 6:15 PM **Measuring the Leptonic Dirac CP Phase with Muon Decay at Rest**

Speaker
Dr Shao-Feng Ge

6:15 – 6:16 PM
Development of ^{129}Xe and ^{131}Xe co-existing masers with external feedback for the search for Xe atomic EDM

Speaker
Dr Tomoya Sato

6:16 – 6:17 PM **Neutral pion form factor measurement by the NA62 experiment**

Speaker
Cristina Lazzeroni

6:17 – 6:18 PM
Novel measurement of tau-neutrino production by DsTau at the CERN SPS

Speaker
Dr Tomoko Ariga

6:18 – 6:19 PM
Searches for Lepton number violation and resonances in the K+- -->pi mu mu decays at the NA48/2 experiment

Speakers
Cristina Lazzeroni, Dr Riccardo Fantechi

6:19 – 6:20 PM **The fibre tracker R&D for the Mu3e experiment**

Speaker
Angela Papa

6:20 – 6:21 PM **The calibration methods for the MEG experiment and its upgrade**

Speaker
Angela Papa

6:21 – 6:22 PM
The aSPECT experiment – Investigation of systematic uncertainties by Monte Carlo simulations

Speaker
Mr Christian Schmidt

6:22 – 6:23 PM **The aSPECT experiment – current status of the analysis**

Speaker
Mr Alexander Wunderle

6:23 – 6:24 PM
Design and performance of the proposed cold neutron beam facility for particle physics at the ESS

Speaker
Torsten Soldner

6:24 – 6:25 PM **Status of the PSI UCN source**

Speakers
Nicolas Hild, on behalf of the UCN Team at PSI -

6:25 – 6:26 PM **Data Acquisition with GPUs for the Muon g-2 Experiment at Fermilab**

Speaker
Dr Wesley Gohn

6:26 – 6:27 PM **Neutron moderators for the European Spallation Source**

Speaker
Esben Klinkby

6:27 – 6:28 PM **A new muon beam line for fundamental physics study in J-PARC**

Speaker
Dr Naritoshi Kawamura

6:28 – 6:29 PM
CALIPSO : a moderated positron calibration source for proton spectroscopy

Speaker
Mr Romain Virot

6:29 – 6:30 PM
Radiative Decay Counter for Ultimate Sensitivity of MEG II Experiment

Speaker
Mr Ryoto Iwai

6:30 – 6:31 PM
Performance of MEG II Positron Timing Counter Based on Commissioning Run Result

Speaker
Ms Miki Nishimura

6:31 – 6:32 PM **A tracking detector for the P2 experiment**

Speaker
Prof. Niklaus Berger

6:32 – 6:33 PM **Monte Carlo simulations for the neutron EDM experiment at TRIUMF**

Speaker
Mr Nicholas Christopher

6:33 – 6:34 PM **A Scintillation Stopping Target for the MEG II Experiment**

Speaker
Mr Felix Anton Berg

6:34 – 6:35 PM **Cs magnetometers in the nEDM experiment at PSI**

Speaker
Dr Malgorzata Kasprzak

6:35 – 6:36 PM
Study of Discrete Symmetry Breaking Effects in Neutron-induced Compound States

Speaker
Prof. Hirohiko Shimizu

6:36 – 6:37 PM **Data blinding for the nEDM experiment**

Speaker
Dr Jochen Krempel

6:37 – 6:38 PM **Neutron decay measurements with PERKEO III**

Speaker
Mr Christoph Roick

6:38 – 6:39 PM **Neutral currents in muonic atoms**

Speaker
Dr Frederik Wauters

6:50 – 6:51 PM
Preparation for the Time Reversal Invariance experiment at COSY (TRIC)

Speaker
Dr Yury Valdau

6:51 – 6:52 PM
Cartan's Torsion as Origin for Cosmological Constant and Dark Energy Density

Speaker
Prof. A.N. Ivanov

6:57 – 6:58 PM
muCool: Development of a novel high-brightness low-energy muon beamline

Speaker
Ivana Belosevich

6:58 – 6:59 PM **Electric field studies for nEDM experiments**

Speaker
Jacob Thorne

8:00 PM