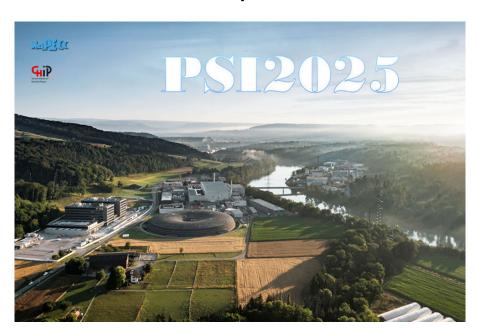
Session Program

7-12 Sept 2025



Physics of fundamental Symmetries and Interactions - PSI2025

Poster Session and BBQ

PSI, WHGA/001 - Auditorium

Tuesday 9 September

16:30

Poster Session and BBQ: Poster Session and BBQ

Session | **Location:** Outside Auditorium and Tent

16:30-16:31 Non-linearity correction of SiPMs in the MEG~II liquid xenon detector

Speaker

Sei Ban

16:31-16:32

Determination of Resonance Spin via Low-Energy Gamma-Ray Spectroscopy in Neutron Capture Reactions

Speaker

Dr Shunsuke Endo

16:32-16:33 Ultracold neutron energy spectrum from magnetic depolarization

Speaker

Efrain Patrick Segarra

16:33-16:34

Chiral EFT Approach to Bremsstrahlung Corrections and Charge Asymmetry in Elastic Lepton-Proton Scattering

Speaker

Ms Bhoomika Das

16:34-16:35

Nuclear structure studies close to shell closure N = 126 using quasiparticle-phonon plus rotor method

Speaker

Youssra Elabssaoui

16:35-16:36

Precision Spectroscopy of Low-Lying States in Muonic Boron with MMC Detectors

Speaker

Aziza Zendour

16:37-16:38

Study on the Radiation Damage of VUV-sensitive MPPC in Liquid Xenon

Speaker

Ryusei Umakoshi

16:38-16:39 Neutron-to-mirror-neutron oscillations in an ultracold neutron beam

Speaker

Daniel Galbinski

16:39-16:40

Characterization of the Swiss Spallation Neutron Source as a Site for Neutrino Experiments

Sergey Konstantin Ermakov

16:40-16:41 Gravity induced CP violation in neutral mesons experiments

Speaker

jean-marcel rax

16:41-16:42 Status of the magnetic shield for the muEDM experiment

Speaker

Pranas Juknevicius

16:42-16:43 Testing QED and Beyond with ortho-Positronium

Speaker

Beining Rao

16:43-16:44

Application of Transformer-Based Machine Learning Architecture to the Positron **Spectrometer Data Analysis in the MEG II Experiment**

Speaker

Atsushi Oya

16:44-16:45

Impact of NNLO QED vs. TPE corrections in lepton-proton scattering at MAMI

Speaker

Matteo Ronchi

16:45-16:46 Status of the neutron decay experiment PERC

Speaker

Lilli Löbell

16:46-16:47 Recent results from CUORE and path towards CUPID

Speaker

Nicola Manenti

16:47-16:48

Beamline and magnetic field preparation for correlation coefficients measurements in the BRAND experiment

Speaker

Clément Desalme

16:48-16:49

Performance evaluation of LYSO crystals for energy and timing measurements in a gamma-ray pair spectrometer for future \$\mu\to e\gamma\$ experiment

Speaker

Rei Sakakibara

16:49-16:50

Mott Polarimeter for Neutron Correlation Coefficients Measurement

Speaker

Mr Shantanu Bhalerao

16:50-16:51 The Mu3e Commissioning Run at PSI in 2025

Mikio Sakurai

16:51-16:52

Towards optimal data flow in high-energy physics: achieving determinism and real-time in the Mu3e experiment

Speaker

Yifeng Wang

16:52-16:53 Spin-selective detection and manipulation of ultracold neutrons

Speakers

Josef Tremmel, Tim Sandmann

16:53-16:54 The Tracking Detector for the P2 Experiment

Speaker

Lucas S. Binn

16:54-16:55

Simulation study of background and systematic effects for the muEDM experiment at PSI

Speaker

David Hoehl

16:55-16:56

Efficiency of the neutron spin transport system in the n2EDM experiment

Speaker

Gian Caratsch

16:56-16:57 The Mu3e Data Acquisition System

Speaker

Dr Alexandr Kozlinskiy

16:57-16:58

Towards Charge conjugation symmetry test in Electromagnetic Interaction using J-PET

Speaker

Pooja Tanty

16:58-16:59

Bayesian Optimization and Real-Time Control in the Muon EDM Experiment at PSI

Speaker

J. Alexander Jaeger

16:59-17:00 Search for the Fierz Interference Term with PERKEO III

Speaker

Anna Schubert

17:00-17:01

Muonic Atom Spectroscopy of U-238 for the Extraction of Nuclear Properties

Speaker

Anastasia Doinaki

17:01-17:02

The PanEDM Experiment: Commissioning Progress and Subsystem Overview

Speaker

Dr Kseniia Svirina

17:02-17:03 The Mu3e Scintillating Fiber Detector

Speaker

Gentian Shatri

17:03-17:04 The free neutron lifetime experiment τSPECT

Speaker

Julian Auler

17:04-17:05

Calibration of the MEG II Pixelated Timing Counter for 2023-2024 Dataset

Speaker

Weiyuan Li

17:05-17:06

Normalization detectors for the neutron lifetime experiment τSPECT

Speaker

Viktoria Ermuth

17:06-17:07

Polarizers for ultra-cold and very cold neutrons based on reflection off iron-cobalt foils

Speaker

Oliver Zimmer

17:07-17:08

Offline Characterization of a Highly Uniform Magnetic Field for the n2EDM **Experiment**

Speaker

Valentin Czamler

17:08-17:09

An optically pumped Cesium magnetometry array for the n2EDM experiment

Speaker

Lea Segner

17:09-17:10 Calibration and commissioning of the Mu3e Vertex Detector

Speaker

Thomas Senger

17:10-17:11

Monte Carlo simulation framework for the neutron lifetime experiment τSPECT

Speaker

Niklas Pfeifer

17:11-17:12

Demonstration of LYSO crystals as a high resolution calorimeter option for the new PIONEER experiment

Mr Omar Beesley

17:12-17:13

Storing muons and freezing spin: development of a fast kicker magnet and electrode system

Speaker

Timothy David Hume

17:13-17:14

Development of a cryogenic device for a polarized target nuclei to search for the time-reversal symmetry violation in compound nucleus

Speaker

Ms Shiori Kawamura

17:14-17:15 A spatially resolving detector for ultracold neutrons

Speaker

Konrad Franz

17:15-17:16

Performance of a Magnetically Shielded Room for the Xenon EDM Experiment

Speaker

Fabian Allmendinger

17:16-17:17 Enhanced antihydrogen accumulation with laser-cooled Be+

Speaker

Joanna Peszka

17:17-17:18 The 199Hg Co-magnetometer System for the n2EDM Experiment

Speakers

Nikolaus Stephan Edler von Schickh, Wenting Chen

17:18-17:19 Interferometric measurements for the LEMING experiment

Speaker

Francesco Lancellotti

17:19-17:20 The muEDM Experiment Technical Overview

Speaker

Diego Alejandro Sanz Becerra

17:20-17:21

The ground state hyperfine splitting in muonic hydrogen experiment (HyperMu) at PSI

Speaker

Ahmed Ouf

17:21-17:22

Development of Key Components of the UCN-Optics System of PanEDM

Speaker

Luca Kaess

17:22-17:23

qBounce: developments and implementation of new experimental techniques

Dr Johann Marton

17:23-17:24

The Gradiometer: A detection system for magnetic contamination in n2EDM

Speaker

Luz Sanchez-Real Zielniewicz

17:24-17:25

Determination of a Rate-Dependent Gain Correction for the Muon g-2 **Calorimeters at Fermilab**

Speaker

Dr Joshua LaBounty

17:25-17:26 Mu3e Online Event Selection on GPU

Speaker

Chen Xie

17:26-17:27 MCUCN simulations for n2EDM - study of UCN spin kinetics

Speaker

Geza Zsigmond

17:27-17:28 Physics with Ultra-Cold and Very-Cold Neutrons at the PF2

Speaker

Dr Hanno Filter-Pieler

17:28-17:29 A new view on Quantum Computers

Speaker

Daniel Aziz

17:29-17:30 Towards a new generation split-crystal interferometer

Speaker

Michael Jentschel

17:30-17:31

A new results of neutron lifetime measurement with cold neutron beam at J-PARC

Speaker

Kenji Mishima

17:31-17:32 Spin dependent exotic interactions

Speaker

Lei Cong

17:32-17:33 Search for Exotic Forces

Speaker

Lei Cong

19:30