

The 9th International Symposium on Symmetries in Subatomic Physics (SSP2025)

Wednesday, September 24, 2025

Scientific Program: Session 1 (9:00 AM - 10:30 AM)

-Conveners: Shinsuke KAWASAKI

time	[id] title	presenter
9:00AM	[1] The Neutron Lifetime Puzzle	LIU, Chen-yu
9:30AM	[2] A new results of neutron lifetime measurement with cold neutron beam at J-PARC	MISHIMA, Kenji
10:00AM	[3] The Nab neutron beta decay experiment: status and plans	SAUNDERS, Alexander

Scientific Program: Session2 (11:00 AM - 12:30 PM)

-Conveners: Takatoshi Aoki

time	[id] title	presenter
11:00AM	[4] Beam EDM – a new pulsed-beam experiment to search for the neutron electric dipole moment	PIEGSA, Florian
11:30AM	[5] Recent progress of the TRIUMF Ultra Cold Advanced Neutron Source and EDM Experiment	MILLER, Eric
12:00PM	[6] High-sensitivity search for the electric dipole moment of the neutron	LAUSS, Bernhard

Scientific Program: Session 3 (2:00 PM - 3:30 PM)

-Conveners: Naritoshi Kawamura

time	[id] title	presenter
2:00PM	[7] Muon g-2 at FNAL	SIANG KHAW, Kim
2:30PM	[8] Muon g-2 and EDM in the post FNAL era	MIBE, Tsutomu
3:00PM	[9] Search for the electric dipole moment of the muon using the frozen-spin technique in a compact storage trap	SCHMIDT-WELLENBURG, Philipp

Scientific Program: Session 4 (4:00 PM - 5:30 PM)

-Conveners: Kaori Fuyuto

time	[id] title	presenter
4:00PM	[10] Atomic parity violation theory: status, challenges, outlook	GINGES, Jacinda
4:30PM	[11] Quantification of the flavor diagonal hadronic CP violation	YAMANAKA, Nodoka
5:00PM	[12] Time-Reversal Invariance Violation in nuclear reactions with neutrons	GUDKOV, Vladimir

Scientific Program: Session 5 (6:00 PM - 7:30 PM)

-Conveners: Chen-yu Liu

time	[id] title	presenter
6:00☒PM	[13] Experimental searches for Beyond-Standard-Model Physics using cold neutron beams	R. YOUNG, Albert
6:30☒PM	[14] Search for time-reversal symmetry violation in neutron-nucleus system at J-PARC (NOPTREX: J-PARC E99)	OKUDAIRA, Takuya
7:00☒PM	[15] A proposed search for spin-velocity-dependent interactions using neutron whispering gallery states	ICHIKAWA, Go
7:15☒PM	[16] GBAR experiment results and prospects	PEREZ, Patrice

Thursday, September 25, 2025

Scientific Program: Session 6 (9:00 AM - 10:30 AM)

-Conveners: Stephan Paul

time	[id] title	presenter
9:00AM	[17] Chiral symmetry of QCD and some of its implications	R. SCHINDLER, Matthias
9:30AM	[18] Lepton flavor violation of tau decays at Belle and Belle II	INAMI, Kenji
10:00AM	[19] High precision measurement of the weak mixing angle at low energy,	MAAS, Frank

Scientific Program: Session 7 (11:00 AM - 12:40 PM)

-Conveners: Akira Ishida

time	[id] title	presenter
11:00AM	[20] The Electron $g-2$ as a Precision Test of the Standard Model and a Probe of New Physics	NIO, Makiko
11:30AM	[21] Toward high-precision spectroscopy of muonium hyperfine structure at J-PARC with high magnetic field	GOTO, Yu
11:50AM	[22] Muonic Helium HFS Measurements at J-PARC	STRASSER, Patrick
12:10PM	[23] Laser Spectroscopy of Muonium	UETAKE, Satoshi

Scientific Program: Session 8 (2:00 PM - 3:35 PM)

-Conveners: Matthias R. Schindler

time	[id] title	presenter
2:00PM	[24] Quark confinement due to unified magnetic monopoles and vortices reduced from symmetric instantons with holography	KONDO, Kei-Ichi
2:30PM	[25] Ab Initio Nuclear Theory for Tests of Fundamental Symmetries	NAVRATIL, Petr
3:00PM	[26] GRASIAN: Shaping and characterization of the cold hydrogen beam for the forthcoming first demonstration of gravitational quantum states of atoms.	KILLIAN, Carina
3:15PM	[27] Proton decays at JUNO	GUO, Wanlei

Friday, September 26, 2025

Scientific Program: Session 9 (9:00 AM - 10:30 AM)

-Conveners: Kazuki Ueno

time	[id] title	presenter
9:00AM	[28] Toward Positronium Bose-Einstein Condensation: Laser Cooling in Vacuum and Challenges in Nanoporous Materials	ISHIDA, Akira
9:30AM	[29] Opening a New Frontier in Precision Spectroscopy of Muonic Atoms with Superconducting X-ray Calorimeters	AZUMA, Toshiyuki
10:00AM	[47] The new result on the mu e gamma search with the MEGII experiment	PAPA, Angela

Scientific Program: Session 10 (11:00 AM - 12:30 PM)

-Conveners: Takahiko Masuda

time	[id] title	presenter
11:00AM	[32] Characterization of the ^{229}Th nuclear clock transition in solid state hosts	DOYLE, Jack
11:30AM	[33] Trapping and laser spectroscopy of triply charged thorium-229 for a nuclear clock	YAMAGUCHI, Atsushi
12:00PM	[34] Laser spectroscopy of a nucleus	HUDSON, Eric

Saturday, September 27, 2025

Scientific Program: Session 11 (9:00 AM - 10:30 AM)

-Conveners: Volodymyr Takhistov

time	[id] title	presenter
9:00AM	[35] Theory of Baryon and Lepton Number Violation	TSUMURA, Koji
9:30AM	[36] Neutrinoless Double-Beta Decay	SHIMIZU, Itaru
10:00AM	[37] The NNBAR Experiment: A Search for Free Neutron-Antineutron Oscillations	PERSSON, Linus

Scientific Program: Session 12 (11:00 AM - 12:30 PM)

-Conveners: Nodoka Yamanaka

time	[id] title	presenter
11:00AM	[38] Searches for Nucleon Decay and Baryon Number Violation with Super-Kamiokande Experiment	TAKHISTOV, Volodymyr
11:30AM	[39] Theoretical overview on EDM	FUYUTO, Kaori
12:00PM	[40] Quantum sensing of the electron's electric dipole moment using ultracold Fr atoms	AOKI, Takatoshi

Scientific Program: Session 13 (2:00 PM - 3:30 PM)

-Conveners: Kenji MISHIMA

time	[id] title	presenter
2:00PM	[41] Production and spectroscopy of cold radioactive molecules for precision measurement	HUTZLER, Nicholas
2:30PM	[42] Proton EDM in Storage Ring	KIM, On
3:00PM	[43] Measurement of the deuteron static and oscillating electric dipole moment at the COoler SYNchrotron COSY	PRETZ, Jörg

Scientific Program: Session 14 (4:00 PM - 5:15 PM)

-Conveners: Nicholas Hutzler

time	[id] title	presenter
4:00PM	[44] Exquisitely Precise Tests of the Standard Model (SM) and Probes for BSM Physics Using the Electron's Two Dipole Moments	GABRIELSE, Gerald
4:30PM	[45] Measuring the Electron's Electric Dipole Moment Using Ultracold YbF Molecules	JENKINS, Rhys
4:45PM	[30] Muonium Atom Interferometry for High-precision Studies of Symmetries and Interactions	KANDA, Sohtaro
5:00PM	[31] A slow antihydrogen beam for ground-state hyperfine spectroscopy	KURODA, Naofumi

Scientific Program: Session 15 (6:00 PM - 7:30 PM)

-Conveners: Tsutomu Mibe

time	[id] title	presenter
6:00PM	[46] Effective Theory of Muon-to-Electron Conversion: Applications to Mu2e and COMET	HAXTON, Wick
6:30PM	[48] Search for muon to electron conversion with COMET experiment at J-PARC	UENO, Kazuki
7:00PM	[49] Overview and status of the Mu2e experiment	MACKENZIE, Michael

Sunday, September 28, 2025

Scientific Program: Session 16 (9:00 AM - 10:15 AM)

-Conveners: Linus Persson

time	[id] title	presenter
9:00AM	[51] CERN: Antimatter Under The Microscope	ULMER, Stefan
9:30AM	[52] New Era in Fundamental Physics with Antihydrogen	FUJIWARA, Makoto
10:00AM	[53] Microwave Spectroscopy of Antihydrogen in the ALPHA Experiment	POWELL, Adam

Scientific Program: Session 17 (10:45 AM - 12:15 PM)

-Conveners: Go Ichikawa

time	[id] title	presenter
10:45AM	[54] Search for new gravity-like short range interactions in the submicron range by means of neutron-nanoparticle scattering	KONDO, Ryota
11:15AM	[55] LEMING - towards measuring the gravitational acceleration of muonium	SOTER, Anna
11:45AM	[56] Review on Gravitational Inverse Square Law and Lorentz Violation	MURATA, Jiro