

Session Program

26-30 Aug 2019



Joint Annual Meeting of SPS and ÖPG 2019

Nuclear, Particle- & Astrophysics

Universität Zürich
Winterthurerstr. 190, 8057 Zürich

Tuesday 27 August

14:00

Nuclear, Particle- & Astrophysics: I: Precision Physics at Low Energy

Session | Location: G 55

14:00–14:15

[301] Analysis of the hyperfine splitting of the $5s \rightarrow 4s$ transitions in muonic Re-185 and Re-187

Speaker

Stergiani Marina Vogiatzi

14:15–14:30

[302] Multi-pass optical cavity for the measurement of the hyperfine splitting in muonic hydrogen

Speaker

Mirosław Marszałek

14:30–14:45

[303] Design of the detection system for the measurement of the hyperfine splitting in muonic hydrogen

Speaker

Laura Sinkunaite

14:45–15:00

[304] Thin-Disk Laser for the Measurement of the Hyperfine-Splitting in Muonic Hydrogen

Speaker

Manuel Zeyen

15:00–15:15

[305] Ramsey spectrometer for matter-antimatter experiments

Speaker

Amit Nanda

15:15–15:30

[306] Recent Measurements on Vacuum Muonium Production

Speaker

Narongrit Ritjoho

15:30–15:45

[307] Data Analysis for the PSI Neutron Electric Dipole Moment Experiment

Speaker

Nicholas Ayres

15:45–16:00

[308] Next generation active magnetic shielding for n²EDM

Speaker

Solange Emmenegger

16:00–16:15

[309] Development of a caesium magnetometer array for the n²EDM experiment

	<p>Speaker Dr Georg Bison</p>
<p>16:30</p>	<p>16:15–16:30 [310] Johnson-Nyquist Noise Studies for the n2EDM Experiment at PSI Speaker Pin-Jung Chiu</p>
<p>17:00</p>	<p>Nuclear, Particle- & Astrophysics: II: Dark Matter and Neutrino I Session Location: G 55</p> <p>17:00–17:15 [311] Momentum Spectroscopy of Neutron Beta Decay Products with NoMoS Speaker Mr Waleed Khalid</p> <p>17:15–17:30 [312] Kaonic Deuterium X-Ray Measurements with the SIDDHARTA-2 Apparatus at DAFNE Speaker Ms Marlene Tüchler</p> <p>17:30–18:00 [313] Beyond colliders: exploring the dark sector with beam dumps Speaker Elena Graverini</p> <p>18:00–18:15 [314] Dark sectors searches at high-intensity colliders Speaker Federico Leo Redi</p> <p>18:15–18:30 [315] Search for long-lived heavy neutrinos with the CMS Experiment Speaker Mr Vinzenz Stampf</p> <p>18:30–18:45 [316] NA64 - Search for dark matter at CERN SPS Speaker Emilio Depero</p>
<p>18:45</p> <p>17:00</p>	<p>Nuclear, Particle- & Astrophysics: III: Detector Session Location: G 91</p> <p>17:00–17:15 [321] Performance of the Belle II Silicon Vertex Detector Speaker Christoph Schwanda</p> <p>17:15–17:30 [322] SiPM detectors for the LHCb SciFi tracker upgrade Speaker Mr Sebastian Schulte</p>

17:30-17:45

[323] Integration of the FELIX readout in the ATLAS ITk Pixel data transmission chain**Speaker**

Ms Meghranjana Chatterjee

17:45-18:00

[324] Characterisation of the opto electrical data conversion system for the ATLAS detector upgrade**Speaker**

Mr Roman Müller

18:00-18:15

[325] Serial powering and high hit rate efficiency measurement for the Phase 2 Upgrade of the CMS Pixel Detector.**Speaker**

Daniele Ruini

18:15-18:30

[326] zfit: scalable pythonic fitting**Speaker**

Jonas Eschle

18:30-18:45

[327] ArgonCube: A Modular Approach for Liquid Argon Time Projection Chambers**Speaker**

Roman Berner

18:45-19:00

[328] First dual-phase xenon TPC with SiPM readout and its ultra-low energy calibration with ^{37}Ar **Speaker**

Mr Kevin Thieme

19:00

Wednesday 28 August

14:00

Nuclear, Particle- & Astrophysics: IV: High Energy Physics I

Session | Location: G 55

14:00–14:30

[331] First Observation of the Seeded Proton Bunch Self-Modulation in Plasma

Speaker

Marlene Turner

14:30–15:00

[332] Review of flavour anomalies

Speaker

Andrea Mauri

15:00–15:15

[333] Search for new physics in heavy baryon decays

Speaker

Martina Ferrillo

15:15–15:30

[334] Search for the lepton-flavour-violating decay $B^{+} \rightarrow K^{+} \tau^{\mu} \mu^{\mu}$

Speaker

Lino Ferreira Lopes

15:30–15:45

[335] Angular analysis of $B^0 \rightarrow K^{*0} \ell \ell$ decays at LHCb

Speaker

Ms Zhenzi Wang

15:45–16:00

[336] CP violation in beauty and charm at LHCb

Speaker

Dr Julian Garcia Pardinás

16:00–16:15

[337] Search for CP violation in angular distributions of $D^0 \rightarrow 4h$ decays at LHCb

Speaker

Tara Nanut

16:15–16:30

[338] Towards a measurement of the charm mixing parameter γ_{CP} in $D^0 \rightarrow h^+ h^-$ decays

Speaker

Mr Guillaume Pietrzyk

16:30

17:00

Nuclear, Particle- & Astrophysics: V: High Energy Physics II

Session | Location: G 55

17:00-17:15

[341] Model-independent measurement of charm-mixing parameters in $D^0 \rightarrow K^0_S \pi^+ \pi^-$ **Speaker**

Mr Surapat Ek-In

17:15-17:30

[342] Measurement of CP violation with the ATLAS experiment**Speaker**

Emmerich Kneringer

17:30-17:45

[343] Amplitude analysis of $B^0 \rightarrow (\pi^+ \pi^-)(K^+ \pi^-)$ decays**Speaker**

Maria Vieites Diaz

17:45-18:00

[344] Towards a measurement of the differential decay rate of the decay $B^+ \rightarrow \rho^0 \mu^+ \nu_{\mu}$ at LHCb**Speaker**

Ms Veronica Sølund Kirsebom

18:00-18:15

[345] Observation of Hbb in CMS**Speaker**

Krunal Bipin Gedia

18:15-18:30

[346] Measurement of $t\bar{t}H(bb)$ in proton-proton collision data at 13 TeV**Speaker**

Korbinian Schweiger

18:30-18:45

[347] Search for top squark pair production in events with Z bosons**Speaker**

Meinrad Schefer

18:45-19:00

[348] Low-mass dielectron measurements in pp, p-Pb and Pb-Pb collisions with ALICE at LHC**Speaker**

Dr Elisa Meninno

19:00

Thursday 29 August

14:00

Nuclear, Particle- & Astrophysics: VI: Dark Matter and Neutrino II

Session | Location: G 55

14:00–14:30 **[351] Active Magnetic Shielding and Axion-Dark-Matter Search**

Speaker

Dr Michal Rawlik

14:30–14:45 **[352] Xenon1T results**

Speaker

Mr Giovanni Volta

14:45–15:00 **[354] Search for Dark Absorption in XENON1T**

Speaker

Dr Michelle Galloway

15:00–15:15 **[355] Analysis of high-energy events in XENON1T**

Speaker

Chiara Capelli

15:15–15:30 **[356] Axion-Dark-Matter Search using Cold Neutrons**

Speaker

Ivo Schulthess

15:30–15:45 **[357] The SST-1M telescope**

Speaker

Cyril Martin Alispach

15:45–16:15

[358] Neutrino point-source searches for multi-messenger astronomy with IceCube

Speaker

Anastasia Maria Barbano

16:30

17:00

Nuclear, Particle- & Astrophysics: VII: Dark Matter and Neutrino III

Session | Location: G 55

17:00–17:15 **[361] qBOUNCE: first results of the Ramsey-type GRS experiment**

Speaker

Joachim Bosina

17:15–17:30 **[362] Studying the Extreme Behaviour of 1ES 2344+51.4**

Speaker

Mr Axel Arbet-Engels

17:30–17:45

[363] Latest results on cross-section measurement at T2K near detector

Speaker

Stephanie Bron

17:45–18:00

[364] Sensitivity study for proton decay via $p \rightarrow K^+ + \bar{\nu}$ in the Deep Underground Neutrino Experiment**Speaker**

Mr Christoph Alt

18:00–18:15

[365] The search for neutrinoless double beta decay in ^{76}Ge **Speaker**

Dr Roman Hiller

18:15–18:30

[366] DARWIN: a next-generation multi-ton xenon observatory**Speaker**

Patricia Sanchez-Lucas

18:30–18:45

[367] Prospects for neutrino-less double beta decay detection with the DARWIN experiment**Speaker**

Yanina Biondi

18:45–19:00

[368] Overview of MicroBooNE**Speaker**

Thomas Josua Mettler

19:00