

Discrete Symmetries in Particle, Nuclear and Atomic Physics and implications for our Universe



Report of Contributions

Contribution ID: 3

Type: **not specified**

Welcome

Monday 8 October 2018 09:30 (30 minutes)

Authors: BUDKER, Dmitry (Johannes Gutenberg-Universität Mainz & University of California - Berkeley); KUPSC, Andrzej (Uppsala University); CURCEANU, Catalina (LNF –INFN Frascati); KIMBALL, Derek (California State University); MOSKAL, Pawel (Jagiellonian University)

Presenters: BUDKER, Dmitry (Johannes Gutenberg-Universität Mainz & University of California - Berkeley); KUPSC, Andrzej (Uppsala University); CURCEANU, Catalina (LNF –INFN Frascati); KIMBALL, Derek (California State University); MOSKAL, Pawel (Jagiellonian University)

Contribution ID: 4

Type: **not specified**

The Gamma Factory

Monday 8 October 2018 10:00 (30 minutes)

Author: KRASNY, Witold

Presenter: KRASNY, Witold

Contribution ID: 5

Type: **not specified**

Precision measurements with atom interferometry

Monday 8 October 2018 11:00 (30 minutes)

Author: MUELLER, Holger (University of California at Berkeley)

Presenter: MUELLER, Holger (University of California at Berkeley)

Contribution ID: 6

Type: **not specified**

Searches for the violation of Lorentz invariance with atomic systems

Monday 8 October 2018 11:30 (30 minutes)

Author: SAFRONOVA, Marianna (University of Delaware)

Presenter: SAFRONOVA, Marianna (University of Delaware)

Contribution ID: 7

Type: **not specified**

New Limits on Lorentz invariance from the LIGO experiment

Monday 8 October 2018 12:00 (30 minutes)

Author: MELISSINOS, Adrian

Presenter: MELISSINOS, Adrian

Contribution ID: 8

Type: **not specified**

Lepton Number and Lepton Flavour tests at NA62

Monday 8 October 2018 14:30 (30 minutes)

Author: SOLDI, Dario

Presenter: SOLDI, Dario

Contribution ID: 9

Type: **not specified**

Reduced hadronic uncertainty in V_{ud} extraction from nuclear beta decays

Monday 8 October 2018 15:00 (30 minutes)

Author: GORSHTEYN, Mikhail

Presenter: GORSHTEYN, Mikhail

Contribution ID: **10**

Type: **not specified**

Search for the electric dipole moment of the electron

Tuesday 9 October 2018 17:00 (30 minutes)

Author: PANDA, Cris

Presenter: PANDA, Cris

Contribution ID: 11

Type: **not specified**

Advances in Ps formation and studies of gravity of anti-matter at AeGIS

Monday 8 October 2018 16:30 (30 minutes)

Author: CARAVITA, Ruggero

Presenter: CARAVITA, Ruggero

Contribution ID: 12

Type: **not specified**

Bulk matter effects in tests of the Pauli Exclusion Principle for electrons

Tuesday 9 October 2018 11:00 (30 minutes)

Author: MILOTTI, Edoardo

Presenter: MILOTTI, Edoardo

Contribution ID: 13

Type: **not specified**

Standard Model tests with rare hadrons and leptons decays

Tuesday 9 October 2018 12:00 (30 minutes)

Author: SILARSKI, Michal

Presenter: SILARSKI, Michal

Contribution ID: 14

Type: **not specified**

Electric Dipole Moment Measurements at Storage Rings

Tuesday 9 October 2018 14:30 (30 minutes)

Author: PRETZ, Joerg

Presenter: PRETZ, Joerg

Contribution ID: 15

Type: **not specified**

CP violation at LHCb

Tuesday 9 October 2018 15:00 (30 minutes)

Author: MEINERT, Nis

Presenter: MEINERT, Nis

Contribution ID: 16

Type: **not specified**

Search for Neutrino CP violation in accelerator neutrino experiments

Tuesday 9 October 2018 15:30 (30 minutes)

Author: NAKAYA, Tsuyoshi

Presenter: NAKAYA, Tsuyoshi

Contribution ID: 17

Type: **not specified**

Test of CPT in transitions with entangled neutral kaons

Tuesday 9 October 2018 11:30 (30 minutes)

Author: DI DOMENICO, Antonio

Presenter: DI DOMENICO, Antonio

Contribution ID: **18**

Type: **not specified**

Studies of discrete symmetries in the annihilations of positronium atoms with the J-PET detector

Tuesday 9 October 2018 16:30 (30 minutes)

Author: CZERWIŃSKI, Eryk

Presenter: CZERWIŃSKI, Eryk

Contribution ID: **19**

Type: **not specified**

Experimental symmetry test with hyperons

Author: JOHANSSON, Tord

Presenter: JOHANSSON, Tord

Contribution ID: 20

Type: **not specified**

Study of the fundamental symmetries with WASA-at-COSY

Tuesday 9 October 2018 17:30 (30 minutes)

Author: SKURZOK, Magdalena

Presenter: SKURZOK, Magdalena

Contribution ID: 21

Type: **not specified**

VIP2: Searches for tiny violation of spin statistics in an underground laboratory

Wednesday 10 October 2018 09:30 (30 minutes)

Author: MARTON, Johann

Presenter: MARTON, Johann

Contribution ID: 22

Type: **not specified**

Astroparticle Physics and Cosmology

Wednesday 10 October 2018 10:00 (30 minutes)

Author: DOLGOV, Alexander

Presenter: DOLGOV, Alexander

Contribution ID: 23

Type: **not specified**

Astroparticle Physics and Cosmology II

Wednesday 10 October 2018 11:00 (30 minutes)

Author: DOLGOV, Alexander

Presenter: DOLGOV, Alexander

Contribution ID: 24

Type: **not specified**

High-precision calculations of atomic parity violation

Wednesday 10 October 2018 11:30 (30 minutes)

Author: DEREVIANKO, Andrei

Presenter: DEREVIANKO, Andrei

Contribution ID: 25

Type: **not specified**

Open Discussion

Contribution ID: 26

Type: **not specified**

Poster Session

Wednesday 10 October 2018 14:30 (1 hour)

Contribution ID: 27

Type: **not specified**

Poster Session

Wednesday 10 October 2018 16:00 (1 hour)

Contribution ID: 28

Type: **not specified**

Probing new physics with precision isotope shift spectroscopy

Thursday 11 October 2018 09:30 (30 minutes)

Author: AKERMAN, Nitzan

Presenter: AKERMAN, Nitzan

Contribution ID: 29

Type: **not specified**

Searches for Weakly-Coupled Interactions Using Slow Neutrons

Thursday 11 October 2018 10:00 (30 minutes)

Presenter: SNOW, Michael

Contribution ID: **30**

Type: **not specified**

Searches for ultra-light dark matter with network of synchronized optical magnetometers

Thursday 11 October 2018 11:00 (30 minutes)

Author: PUSTELNY, Szymon

Presenter: PUSTELNY, Szymon

Contribution ID: 31

Type: **not specified**

Search for axion-induced oscillating electric dipole moments (CASPER Electric)

Thursday 11 October 2018 11:30 (30 minutes)

Author: AYBAS, Deniz

Presenter: AYBAS, Deniz

Contribution ID: 32

Type: **not specified**

Search for the ultralight dark matter wind (CASPEr Wind)

Thursday 11 October 2018 12:00 (30 minutes)

Author: WICKENBROCK, Arne

Presenter: WICKENBROCK, Arne

Contribution ID: 33

Type: **not specified**

Every day signatures for streaming invisible matter, dark matter, and missing antimatter mysteries

Monday 8 October 2018 16:00 (30 minutes)

Author: ZIOUTAS, Konstantinas

Presenter: ZIOUTAS, Konstantinas

Contribution ID: 34

Type: **not specified**

Dependence of atomic parity violation on neutron skins and new physics

Thursday 11 October 2018 14:30 (30 minutes)

Author: VIATKINA, Anna

Presenter: VIATKINA, Anna

Contribution ID: 35

Type: **not specified**

Search for CP violation in hyperon sector

Thursday 11 October 2018 16:30 (30 minutes)

Author: KUPSC, Andrzej (Uppsala University)

Presenter: KUPSC, Andrzej (Uppsala University)

Contribution ID: 36

Type: **not specified**

Testing Dynamical Reduction Models at the Gran Sasso Underground Laboratory

Friday 12 October 2018 09:30 (30 minutes)

Author: PISCICCHIA, Kristian

Presenter: PISCICCHIA, Kristian

Contribution ID: 37

Type: **not specified**

Witnessing Entanglement in the 2/3 photon-decay of positronium

Friday 12 October 2018 10:00 (30 minutes)

Author: HIESMAYR, Beatrix

Presenter: HIESMAYR, Beatrix

Contribution ID: **38**

Type: **not specified**

Towards observing indistinguishability between distant ions

Friday 12 October 2018 11:00 (30 minutes)

Author: HAEFFNER, Hartmut

Presenter: HAEFFNER, Hartmut

Contribution ID: 39

Type: **not specified**

Open Discussion

Friday 12 October 2018 11:30 (1 hour)

Contribution ID: 40

Type: **not specified**

Studies of the isospin symmetry in the hyperon-nucleon interactions

Wednesday 10 October 2018 12:00 (30 minutes)

Author: DEL GRANDE, Raffaele

Presenter: DEL GRANDE, Raffaele

Contribution ID: 41

Type: **not specified**

Tests of discrete symmetries using polarization of the annihilation photons

Thursday 11 October 2018 15:00 (30 minutes)

Author: SHARMA, Sushil

Presenter: SHARMA, Sushil

Contribution ID: 42

Type: **not specified**

Precision measurement of the fine structure constant as test of the standard model

Thursday 11 October 2018 16:00 (30 minutes)

Author: PARKER, Richard

Presenter: PARKER, Richard