

Atomic nuclei as laboratories for BSM physics

Report of Contributions

Contribution ID: **1**

Type: **not specified**

Welcome

Monday 15 April 2019 09:30 (30 minutes)

Session Classification: Neutrinos

Contribution ID: 2

Type: **not specified**

Nuclear reactor neutrinos for BSM physics

Monday 15 April 2019 10:00 (45 minutes)

Presenter: GIUNTI, Carlo (INFN)

Session Classification: Neutrinos

Contribution ID: 3

Type: **not specified**

Proton decay search in water Cherenkov detectors

Monday 15 April 2019 11:05 (45 minutes)

Presenter: HAYATO, Yoshinari (ICRR, Japan)

Session Classification: Neutrinos

Contribution ID: 4

Type: **not specified**

BSM physics in DUNE liquid argon time projection chamber

Monday 15 April 2019 11:50 (45 minutes)

Presenter: PIERRE LASORAK (University of Sussex, UK)

Session Classification: Neutrinos

Contribution ID: 5

Type: **not specified**

Neutrino elastic coherent scattering

Monday 15 April 2019 14:00 (45 minutes)

Presenter: RICH, Grayson

Session Classification: Neutrinos

Contribution ID: 6

Type: **not specified**

Sterile neutrino and stopped pion/kaon neutrino physics

Monday 15 April 2019 15:50 (45 minutes)

Presenter: JORDAN, Jonathon (University of Michigan, USA)

Session Classification: Neutrinos

Contribution ID: 7

Type: **not specified**

MiniBooNE anomaly and nuclear physics

Monday 15 April 2019 15:05 (45 minutes)

Presenter: KATORI , Teppei (Queen Mary University of London, UK)

Session Classification: Neutrinos

Contribution ID: 8

Type: **not specified**

Nuclear physics and direct WIMP search experiments

Tuesday 16 April 2019 10:00 (45 minutes)

Presenter: ARAUJO, Henrique (Imperial College London, UK)

Session Classification: Dark Matter

Contribution ID: 9

Type: **not specified**

Neutrinos and weak interactions in the early universe

Tuesday 16 April 2019 11:05 (45 minutes)

Presenter: GROHS, Evan (LANL, USA)

Session Classification: Dark Matter

Contribution ID: **10**

Type: **not specified**

Dark matter interactions in light nuclei

Tuesday 16 April 2019 11:50 (45 minutes)

Presenter: ANDREOLI, Lorenzo (University of Trento, Italy)

Session Classification: Dark Matter

Contribution ID: **11**

Type: **not specified**

Experimental measurementsof electric dipole moments

Presenter: TAKEYASU, Ito (LANL, USA)

Session Classification: Dark Matter

Contribution ID: 12

Type: **not specified**

Experimental measurements of electric dipole moments

Presenter: TAKEYASU, Ito (LANL, USA)

Session Classification: Dark Matter

Contribution ID: 13

Type: **not specified**

Experimental measurementsof electric dipole moments

Presenter: TAKEYASU, Ito (LANL, USA)

Session Classification: Dark Matter

Contribution ID: 14

Type: **not specified**

Experimental measurements of electric dipole moments

Presenter: TAKEYASU, Ito (LANL, USA)

Session Classification: Dark Matter

Contribution ID: 15

Type: **not specified**

Experimental measurements of electric dipole moments

Tuesday 16 April 2019 14:45 (45 minutes)

Presenter: ITO, Takeyasu (LANL, USA)

Session Classification: EDMs

Contribution ID: **16**

Type: **not specified**

The electric dipole moment of the neutron

Tuesday 16 April 2019 15:50 (45 minutes)

Presenter: PIEGSA, Florian (U. of Bern, Switzerland)

Session Classification: EDMs

Contribution ID: 17

Type: **not specified**

Electric dipole moments in light nuclei

Tuesday 16 April 2019 16:35 (45 minutes)

Presenter: MEREGHETTI, Emanuele (LANL, USA)

Session Classification: EDMs

Contribution ID: **18**

Type: **not specified**

Beyond Standard Model physics - An overview

Presenter: RAMSEY-MUSOLF, Michael (UMASS, USA)

Session Classification: EDMs

Contribution ID: **19**

Type: **not specified**

Neutrinoless Double-beta decay

Wednesday 17 April 2019 10:00 (45 minutes)

Presenter: HOLT, Jason (TRIUMF)

Session Classification: Double beta decay

Contribution ID: 20

Type: **not specified**

Ab-initio calculations of nuclear Double-beta decay matrix elements

Wednesday 17 April 2019 11:05 (45 minutes)

Presenter: HAGEN, Gaute (ORNL, USA)

Session Classification: Double beta decay

Contribution ID: 21

Type: **not specified**

Experimental challenges in double beta decay experiments

Wednesday 17 April 2019 11:50 (45 minutes)

Presenter: RUBEN, Saakyan (University College London, UK)

Session Classification: Double beta decay

Contribution ID: 22

Type: **not specified**

Recent results from neutrino experiments

Wednesday 17 April 2019 14:00 (45 minutes)

Presenter: GALINDO-URIBARRI, Alfredo (ORNL, US)

Session Classification: Double beta decay

Contribution ID: 23

Type: **not specified**

beta-decays in light nuclei

Presenter: PASTORE, Saori (Washington University & Los Alamos National Laboratory)

Session Classification: Double beta decay

Contribution ID: 24

Type: **not specified**

Molecules as probes for fundamental physics

Wednesday 17 April 2019 15:50 (45 minutes)

Presenter: BERGER, Robert (U. Marburg, Germany)

Session Classification: EDMs

Contribution ID: 25

Type: **not specified**

Exploring new physics with radioactive atoms and molecules

Wednesday 17 April 2019 16:35 (45 minutes)

Presenter: GARCIA RUIZ, Ronald Fernando (CERN, Switzerland)

Session Classification: EDMs

Contribution ID: 26

Type: **not specified**

Ab initio calculation with Gamov basis

Thursday 18 April 2019 13:50 (45 minutes)

Presenter: HU, Baishan

Session Classification: Developments in experimental and theoretical nuclear physics

Contribution ID: 27

Type: **not specified**

Parity violating electron scattering for BSM physics (remote)

Presenter: MAMMEI, Juliette (University of Manitoba, CA)

Session Classification: Developments in experimental and theoretical nuclear physics

Contribution ID: 28

Type: **not specified**

Beyond Standard Model physics - An overview (remote)

Thursday 18 April 2019 14:45 (45 minutes)

Presenter: RAMSEY-MUSOLF, Michael (UMASS, USA)

Session Classification: Developments in experimental and theoretical nuclear physics

Contribution ID: 29

Type: **not specified**

Testing the CKM unitary through beta decay measurements

Thursday 18 April 2019 11:50 (45 minutes)

Presenter: MELCONIAN, Dan (Texas A&M, US)

Session Classification: Developments in experimental and theoretical nuclear physics

Contribution ID: **30**

Type: **not specified**

Nuclear ground state properties for studies of fundamental symmetries

Thursday 18 April 2019 11:05 (45 minutes)

Presenter: MALBRUNOT-ETTENAUER, Stefan (CERN, Switzerland)

Session Classification: Developments in experimental and theoretical nuclear physics

Contribution ID: **31**

Type: **not specified**

Concluding Remarks

Thursday 18 April 2019 15:50 (30 minutes)

Session Classification: Developments in experimental and theoretical nuclear physics

Contribution ID: 32

Type: **not specified**

Ab-initio methods for neutrino less double beta decay and dark matter searches

Presenter: HOLT, Jason (TRIUMF)

Session Classification: EDMs

Contribution ID: 33

Type: **not specified**

Lattice QCD

Wednesday 17 April 2019 14:45 (45 minutes)

Presenter: BERKOWITZ, Evan

Session Classification: Double beta decay

Contribution ID: 34

Type: **not specified**

Lattice QCD (TBA)

Presenter: BERKOWITZ, Evan

Session Classification: Neutrinos

Contribution ID: 35

Type: **not specified**

coffee

Session Classification: Developments in experimental and theoretical nuclear physics

Contribution ID: 36

Type: **not specified**

Neutrinos: Neutrino interactions with nuclei

Tuesday 16 April 2019 14:00 (45 minutes)

Presenter: GANDOLFI, Stefano (Los Alamos National Laboratory)

Session Classification: Neutrinos