

Workshop "Gravity, Information and Fundamental Symmetries"

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Monday, 4 November 2019 08:55 (5 minutes)

Contribution ID: 1

Type: **not specified**

Aspects, limitations and cracks of the standard model of elementary particles

Monday, 4 November 2019 09:00 (1 hour)

Presenter: VISSANI, Francesco

Contribution ID: 2

Type: **not specified**

Probing PeV scale physics via particle electric dipole moments

Monday, 4 November 2019 10:00 (45 minutes)

Presenter: DEMILLE, David (Yale University)

Contribution ID: 3

Type: **not specified**

Antimatter under the Microscope - High Precision Comparisons of the Fundamental Properties of Matter/Antimatter Conjugates

Monday, 4 November 2019 11:15 (45 minutes)

Presenter: ULMER, Stefan (RIKEN + CERN)

Contribution ID: 4

Type: **not specified**

Precision low-energy physics with muons

Monday, 4 November 2019 12:00 (45 minutes)

Presenter: FERTL, Martin (JGU Mainz)

Contribution ID: 5

Type: **not specified**

Neutrons, Anti-Neutrons and Us

Monday, 4 November 2019 14:00 (45 minutes)

Presenter: BROOIJMANS, Gustaaf (Columbia University)

Contribution ID: 6

Type: **not specified**

Interactions of Neutrinos with Matter

Monday, 4 November 2019 14:45 (45 minutes)

Presenter: SCHOLBERG, Kate (Duke University)

Contribution ID: 7

Type: **not specified**

Neutrino mass measurements

Monday, 4 November 2019 16:00 (45 minutes)

Presenter: MERTENS, Susanne (MPP + TUM)

Contribution ID: 8

Type: **not specified**

Neutrino Physics with Accelerators

Monday, 4 November 2019 16:45 (45 minutes)

Presenter: LU, Xianguo (University of Oxford)

Contribution ID: 9

Type: **not specified**

Discussion

Monday, 4 November 2019 18:15 (1 hour)

Contribution ID: **10**

Type: **not specified**

Quantum matter, clocks, and fundamental physics

Tuesday, 5 November 2019 09:00 (1 hour)

Presenter: YE, Jun (University of Colorado, Boulder)

Contribution ID: 11

Type: **not specified**

Testing Fundamental Physics with Quantum Logic Spectroscopy of Highly Charged Ions

Tuesday, 5 November 2019 10:00 (45 minutes)

Presenter: SCHMIDT, Piet (PTB)

Contribution ID: 12

Type: **not specified**

Molecular clocks for precision metrology

Tuesday, 5 November 2019 11:15 (45 minutes)

Presenter: ZELEVINSKY, Tanya (Columbia University)

Contribution ID: 13

Type: **not specified**

Quantum Tools to Explore the Universe

Tuesday, 5 November 2019 12:00 (45 minutes)

Presenter: WALSWORTH, Ronald (Harvard)

Contribution ID: 14

Type: **not specified**

Dark matter and axions

Tuesday, 5 November 2019 14:00 (45 minutes)

Presenter: REDONDO, Javier (Zaragoza and MPP)

Contribution ID: 15

Type: **not specified**

Axion searches across different mass scales

Tuesday, 5 November 2019 14:45 (45 minutes)

Presenter: DÖBRICH, Babette (CERN)

Contribution ID: 16

Type: **not specified**

Dark Matter and neutrino physics with liquid xenon detectors

Tuesday, 5 November 2019 16:00 (45 minutes)

Presenter: MARRODAN UNDAGOITIA, Teresa (MPIK)

Contribution ID: 17

Type: **not specified**

Recent dark matter searches with Fermi-LAT

Tuesday, 5 November 2019 16:45 (45 minutes)

Presenter: CAPUTO, Regina (NASA)

Contribution ID: **18**

Type: **not specified**

Discussion

Tuesday, 5 November 2019 17:30 (1 hour)

Contribution ID: 19

Type: **not specified**

Quantum Gravity and String Theory Landscape

Wednesday, 6 November 2019 09:00 (1 hour)

Presenter: VAFA, Cumrun (Harvard)

Contribution ID: 20

Type: **not specified**

Quantum causal influence

Wednesday, 6 November 2019 10:00 (45 minutes)

Presenter: QI, Xiaoliang (Stanford University)

Contribution ID: 21

Type: **not specified**

Quantum simulators of gravitational effects

Wednesday, 6 November 2019 11:15 (45 minutes)

Presenter: WEINFURTER, Silke (University of Nottingham)

Contribution ID: 22

Type: **not specified**

Entanglement structure for holography

Monday, 4 November 2019 17:30 (45 minutes)

Presenter: HUBENY, Veronika (UC Davis)

Contribution ID: 23

Type: **not specified**

Searching for gravitational waves, ultra-light dark matter, and "fifth" forces with levitated opto-mechanics

Wednesday, 6 November 2019 14:00 (45 minutes)

Presenter: GERACI, Andrew (Northwestern University, Evanston, IL)

Contribution ID: 24

Type: **not specified**

Holography, locality and quantum error correction

Wednesday, 6 November 2019 14:45 (45 minutes)

Presenter: PASTAWSKI, Fernando (PsiQuantum)

Contribution ID: 25

Type: **not specified**

Entanglement Wedges and AdS/CFT

Wednesday, 6 November 2019 16:45 (45 minutes)

Presenter: TAKAYANAGI, Tadashi (Kyoto University)

Contribution ID: 26

Type: **not specified**

Black Hole Information Scrambling and Spacetime Locality

Wednesday, 6 November 2019 16:00 (45 minutes)

Presenter: SWINGLE, Brian (University of Maryland)

Contribution ID: 27

Type: **not specified**

Discussion

Wednesday, 6 November 2019 17:30 (1 hour)

Contribution ID: 28

Type: **not specified**

The black hole information paradox and space-time behind the horizon

Wednesday, 6 November 2019 12:00 (45 minutes)

Presenter: PAPADODIMAS, Kyriakos