

**Nuclear and Atomic
transitions as laboratories for
high precision tests of
Quantum Gravity inspired
models**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Workshop registration

Monday, 19 September 2022 09:30 (25 minutes)

Contribution ID: 2

Type: **not specified**

Welcome workshop organizers

Monday, 19 September 2022 10:00 (15 minutes)

Contribution ID: 3

Type: **not specified**

Underground test of gravity-related wave function collapse

Monday, 19 September 2022 10:15 (45 minutes)

Presenter: DONADI, Sandro

Contribution ID: 4

Type: **not specified**

Experimental studies of collapse models as basis of consciousness and of photon emission by germinating plants

Monday, 19 September 2022 11:30 (45 minutes)

Presenter: CURCEANU, Catalina

Contribution ID: 5

Type: **not specified**

Spontaneous wave function collapse models

Monday, 19 September 2022 14:30 (45 minutes)

Presenter: BASSI, Angelo

Contribution ID: 6

Type: **not specified**

Astrophysical and cosmological consequences of parity violation in the gravitational sector

Monday, 19 September 2022 15:15 (45 minutes)

Presenter: ALEXANDER, Stephon

Contribution ID: 7

Type: **not specified**

Wave function collapse models tests in the cosmic silence

Monday, 19 September 2022 16:30 (45 minutes)

Presenter: PISCICCHIA, Kristian

Contribution ID: **8**

Type: **not specified**

Dinner

Contribution ID: 9

Type: **not specified**

Astrophysical Probes of Lorentz Violation

Tuesday, 20 September 2022 10:15 (45 minutes)

Presenter: ELLIS, John

Contribution ID: **10**

Type: **not specified**

Welcome ECT* Director

Monday, 19 September 2022 09:55 (5 minutes)

Presenter: AARTS, Gert

Contribution ID: 11

Type: **not specified**

How effectively can we test Quantum Gravity with underground experiments?

Tuesday, 20 September 2022 11:30 (45 minutes)

Presenter: MARCIANO, Antonino

Contribution ID: 12

Type: **not specified**

Quantum spacetime: IR/UV mixing, spin-statistics, agency dependence

Tuesday, 20 September 2022 14:30 (45 minutes)

Presenter: AMELINO-CAMELIA, Giovanni

Contribution ID: 13

Type: **not specified**

Pauli Exclusion Principle violations and quantum gravity with the VIP-2 underground experiment

Tuesday, 20 September 2022 15:15 (45 minutes)

Presenter: NAPOLITANO, Fabrizio

Contribution ID: 14

Type: **not specified**

The decay law in the multichannel case and for moving particles

Wednesday, 21 September 2022 10:15 (45 minutes)

Presenter: GIACOSA, Francesco

Contribution ID: 15

Type: **not specified**

The equivalence principle and inertial-gravitational decoherence

Wednesday, 21 September 2022 11:30 (45 minutes)

Presenter: TORRIERI , Giorgio

Contribution ID: **16**

Type: **not specified**

DAMA/LIBRA results and PEP violations studies

Thursday, 22 September 2022 10:00 (45 minutes)

Presenter: BELLI, Pierluigi

Contribution ID: 17

Type: **not specified**

Recent advancements in radiation detectors for precision experiments

Thursday, 22 September 2022 11:30 (45 minutes)

Presenter: SCORDO, Alessandro

Contribution ID: **18**

Type: **not specified**

Quantum Gravity Phenomenology under “rocks”

Thursday, 22 September 2022 14:30 (45 minutes)

Presenter: ADDAZI, Andrea

Contribution ID: 19

Type: **not specified**

Cascade models for atomic transitions

Thursday, 22 September 2022 15:15 (30 minutes)

Presenter: MANTI, Simone

Contribution ID: **20**

Type: **not specified**

New exclusion statistics

Thursday, 22 September 2022 16:15 (45 minutes)

Presenter: WU , Yong-Shi

Contribution ID: 23

Type: **not specified**

Decoherence and discrete symmetries in Planck-scale deformed relativistic kinematics

Friday, 23 September 2022 10:15 (45 minutes)

Presenter: ARZANO, Michele

Contribution ID: 24

Type: **not specified**

The Schrödinger-Poisson system as an N-body double

Friday, 23 September 2022 11:30 (45 minutes)

Presenter: BRISCESE, Fabio

Contribution ID: 25

Type: **not specified**

Stochastic Quantization of General Relativity: from multiplicative noise to the cosmological constant

Thursday, 22 September 2022 17:00 (45 minutes)

Presenter: LULLI, Matteo

Contribution ID: 26

Type: **not specified**

Accurate analysis method to detect rare events in VIP-2

Wednesday, 21 September 2022 12:15 (30 minutes)

Presenter: PORCELLI, Alessio