

**Is quantum theory exact? The
endeavor for the theory
beyond standard quantum
mechanics. Second Edition
FQT2015**

Report of Contributions

Contribution ID: **0**

Type: **not specified**

Registration

Wednesday, 23 September 2015 09:00 (1h 30m)

Contribution ID: 1

Type: **not specified**

Welcome (LNF-Director: Pierluigi Campana, Catalina Curceanu

Wednesday, 23 September 2015 10:30 (30 minutes)

Contribution ID: 2

Type: **not specified**

Wave function collapse and gravity

Wednesday, 23 September 2015 11:00 (30 minutes)

Presenter: Dr BASSI, Angelo (University of Trieste and INFN)

Session Classification: Session I

Contribution ID: 3

Type: **not specified**

An optomechanical route to the test of collapse models

Presenter: Prof. PATERNOSTRO, Mauro (CTAMOP, Queen's University Belfast)

Contribution ID: 4

Type: **not specified**

Quantum Interference with bionanomatter

Wednesday, 23 September 2015 12:00 (30 minutes)

Presenter: Mr SEZER, Ugur (University of Vienna)

Session Classification: Session I

Contribution ID: 5

Type: **not specified**

Testing Beyond Standard Quantum Theory at Collider Energies

Wednesday, 23 September 2015 14:30 (30 minutes)

Presenter: Dr HIESMAYR, Beatrix (University of Vienna)

Session Classification: Session II

Contribution ID: 6

Type: **not specified**

Does reduction of a particle wave function take a time?

Wednesday, 23 September 2015 15:00 (30 minutes)

Presenter: NICROSINI, Oreste (PV)

Session Classification: Session II

Contribution ID: 7

Type: **not specified**

Memory effects in quantum dynamics: from applications to foundations

Wednesday, 23 September 2015 15:30 (30 minutes)

Presenter: VACCHINI, Bassano (MI)

Session Classification: Session II

Contribution ID: 8

Type: **not specified**

Testing collapse models with ultracold mechanical resonators

Wednesday, 23 September 2015 16:30 (30 minutes)

Presenter: VINANTE, Andrea (TIFP)

Session Classification: Session II

Contribution ID: 9

Type: **not specified**

Electromagnetic characterization of graphene and graphene nanoribbons via ab-initio permittivity simulations

Presenter: BELLUCCI, Stefano (LNF)

Contribution ID: **10**

Type: **not specified**

Probing CPT symmetry with entangled neutral K mesons

Thursday, 24 September 2015 09:30 (30 minutes)

Presenter: DI DOMENICO, Antonio (ROMA1)

Session Classification: Session III

Contribution ID: 11

Type: **not specified**

Earth-Moon Lagrangian points as a testbed for general relativity and effective quantum field theories of gravity: an experimental point of view

Thursday, 24 September 2015 10:00 (30 minutes)

Presenter: DELL'AGNELLO, Simone (LNF)

Session Classification: Session III

Contribution ID: 12

Type: **not specified**

Potential of the J-PET technology for tests of discrete symmetries and quantum mechanics

Thursday, 24 September 2015 10:30 (30 minutes)

Presenter: MOSKAL, Pawel (Jagiellonian University)

Session Classification: Session III

Contribution ID: 13

Type: **not specified**

QM motion of classical particle and probable link to GRW theory

Thursday, 24 September 2015 11:30 (30 minutes)

Presenter: Prof. LUKIN, Konstantin (Usikov Institute of Radiophysics and Electronics)

Session Classification: Session III

Contribution ID: 14

Type: **not specified**

On the Pauli Exclusion Principle search with VIP: some thoughts about data analyses

Thursday, 24 September 2015 12:00 (30 minutes)

Presenter: Dr CURCEANU, Catalina Oana (LNF)

Session Classification: Session III

Contribution ID: 15

Type: **not specified**

On how to treat the X-ray spontaneous emission to get the lambda-value for collapse models

Thursday, 24 September 2015 12:30 (30 minutes)

Presenter: Mr PISCICCHIA, Kristian (LNF)

Session Classification: Session III

Contribution ID: 16

Type: **not specified**

A relativity principle without space-time for the Quantum Automata Field Theory

Thursday, 24 September 2015 14:30 (30 minutes)

Presenter: Prof. D'ARIANO, Giacomo (PV)

Session Classification: Session IV

Contribution ID: 17

Type: **not specified**

Virtually abelian quantum walks and their symmetries

Thursday, 24 September 2015 15:00 (30 minutes)

Presenter: ERBA, Marco (P)

Session Classification: Session IV

Contribution ID: **18**

Type: **not specified**

Recent developments in Collapse Models: dissipative and non-white noise Collapse Models

Thursday, 24 September 2015 16:30 (30 minutes)

Presenter: DONADI, Sandro (TS)

Session Classification: Session IV

Contribution ID: **19**

Type: **not specified**

Matter-wave experiments and collapse models

Thursday, 24 September 2015 15:30 (30 minutes)

Presenter: TOROS, Marko (TS)

Session Classification: Session IV

Contribution ID: **20**

Type: **not specified**

Social Dinner

Thursday, 24 September 2015 20:00 (3 hours)

at the “Zaraza” Restaurant in Frascati

Contribution ID: 21

Type: **not specified**

Measuring incompatible observables by mean of sequential weak values evaluation

Friday, 25 September 2015 09:30 (30 minutes)

Presenter: Dr AVELLA, Alessio (Istituto Nazionale di Ricerca Metrologica)

Session Classification: Session V

Contribution ID: 22

Type: **not specified**

Quantum simulation with Integrated photonics

Friday, 25 September 2015 10:00 (30 minutes)

Presenter: Dr SCIARRINO, FABIO (Dipartimento di fisica)

Session Classification: Session V

Contribution ID: 23

Type: **not specified**

Single-photon observables and preparation uncertainty relations

Friday, 25 September 2015 10:30 (30 minutes)

Presenter: GUARNIERI, Giacomo (MI)

Session Classification: Session V

Contribution ID: 24

Type: **not specified**

Quantum Brownian Motion Reconsidered

Friday, 25 September 2015 11:30 (30 minutes)

Presenter: CARLESSO, Matteo (TS)

Session Classification: Session V

Contribution ID: 25

Type: **not specified**

Is purity eternal at the Planck scale?

Friday, 25 September 2015 12:00 (30 minutes)

Presenter: ARZANO, Michele (ROMA1)

Session Classification: Session V

Contribution ID: 26

Type: **not specified**

Closure, conclusions

Friday, 25 September 2015 12:30 (30 minutes)

Session Classification: Session V

Contribution ID: 27

Type: **not specified**

Electromagnetic characterization of graphene and graphene nanoribbons via ab-initio permittivity simulations

Wednesday, 23 September 2015 11:30 (30 minutes)

Presenter: BELLUCCI, Stefano (LNF)

Session Classification: Session I