

Symposium:
Musing about Quantum Collapse Models:
From Theory to Experiments and back

LNF-INFN, Frascati, 7-8 June 2023, AULA CONVERSI

Program :

7th June:

Chair: Kristian Piscicchia

10:15 – 10:30 **Arrival and Registration**

10:45 – 11:00 Welcome (Catalina Curceanu)

11:00 – 11:45 *Coffee Break*

11:45 – 12:15 Florin Sirghi: *Kaonic Atoms with SIDDHARTA-2 at the DAFNE Collider*

12:15 – 12:45 Alberto Clozza: *VIP BEGE GATOR: An overview on Experimental Setups at LNGS*

12:45 – 13:15 Lajos Diosi: *The case of Quantum Gravity with Spontaneous Collapse*

13:30 – 15:00 *Lunch*

Chair: Catalina Curceanu

15:00 – 15:30 Alessio Porcelli: *Measurements of the Pauli's Exclusion Principle with VIP group's experiments*

15:30 – 16:00 Anirudh Gundhi: *On the motion of an electron through vacuum fluctuations*

16:00 – 16:30 *Coffee Break*

16:30 – 17:00 Kristian Piscicchia: *Spontaneous radiation as a test of wave function collapse, future perspectives*

Social Dinner: 20:00 Hostaria Santa Maria restaurant, Frascati

8th June:

Chair: Catalina Curceanu

10:00 – 10:30 Fabrizio Napolitano: *Quantum Gravity with VIP at LNGS*

10:30 – 11:00 Maaneli Derakhshani: *Are Penrose Superpositions Possible within the Conventional Viewpoint on Quantum Gravity?*

11:00 – 11:45 *Coffee Break*

11:45 – 12:15 Sir Roger Penrose (zoom – online): *Classical/Quantum Reality and effective retro-activity in Quantum State Reduction*

12:15 – 12:45 Simone Manti: *Cascade models for atomic transitions in kaonic atoms as a case study*

12:45 – 13:15 Maurizio Benfatto: *Biophotons: general aspects and new experimental data*

13:15 – 13:30 Nicola Bortolotti: *Ongoing work on quantum gravity att VIP*

13:30 – 15:00 Lunch

15:00 – 16:00 Round table: quantum collapse – from theory to experiments and back