

Hybrid workshop

## Nuclear and Atomic Transitions as Laboratories for High Precision Tests of Quantum Gravity Inspired Models

Trento, September 19-23, 2022

### Main topics

- **Quantum Gravity inspired models and Space Time Non-Commutativity**
  - CPT and Discrete Symmetries
- **High Sensitivity Atomic and Nuclear Tests of Spin-Statistics**
  - Underground Experiments
  - Theoretical Nuclear Physics and Astrophysics
  - Atomic Physics and Cascade calculations

### Organizers

Antonino **Marciano** (Fudan University, China & LNF-INFN), Kristian **Piscicchia** (Centro Studi e Ricerche Enrico Fermi, Italy), Catalina **Curceanu** (LNF-INFN, Italy), Alexander **Stephon** (Brown University, USA), Elisabetta **Barberio** (Melbourne University, Australia)

### Key speakers

Andrea **Addazi**, Sichuan Univ., Chengdu; Stephon **Alexander**, Brown Univ., Providence; Giovanni **Amelino-Camelia**, Federico II, Napoli; Michele **Arzano**, Federico II, Napoli; Pierluigi **Belli**, INFN Tor Vergata Univ., Roma; Fabio **Briscese**, Roma Tre Univ., Roma; Catalina **Curceanu**, INFN sez. Frascati, Roma; Sandro **Donadi**, INFN sez. Trieste, Trieste; John **Ellis**, King's College, London and CERN, Geneva; Francesco **Giacosa**, Jan Kochanowski University, Kielce; Matteo **Lulli**, Sustech, Shenzhen, Antonino **Marciano**, Fudan University, Shanghai & INFN sez. Frascati and Torvergata, Roma; Kristian **Piscicchia**, Centro Fermi - Museo Storico della Fisica e Centro Studi e Ricerche "Enrico Fermi" Roma, and INFN sez. Frascati, Roma; Alessandro **Scordo**, Giorgio **Torrieri**, State University of Campinas and Uniwersytet Jana Kochanowskiego w Kielcach, Yong-Shi **Wu**, Fudan University, Shanghai and Utah Univeristy.

### Director of the ECT\*: Professor Gert Aarts

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