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Type: **Talk**

## Antimatter Gravitation and positronium

Monday 2 September 2024 17:15 (25 minutes)

Antimatter Gravitation is a subject of intense research because of its access to the physics of possible Lorentz invariance violation and its relation to CPT symmetry and the Einstein Equivalence Principle. This field of research has gained even more momentum after the first anti-hydrogen gravitation measurement at CERN. Positronium offers the advantage of being a particle-antiparticle symmetric system, composed of fundamental fermionic masses in the Standard Model. It therefore offers the possibility of testing the Standard Model Extension in an unprecedented way, which is the goal of the QUPLAS experiment.

### Internet talk

No

### Is this an abstract from experimental collaboration?

Yes

### Name of experiment and experimental site

QUPLAS - Politecnico di Milano

### Is the speaker for that presentation defined?

Yes

### Details

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