



Contribution ID: 5

Type: **not specified**

# The Archimedes Experiment: a way for exploring the Vacuum-Gravity Interaction

*Monday, 10 February 2025 15:50 (40 minutes)*

The Archimedes experiment has the goal to measure the vacuum fluctuations interaction with Gravity. A high sensitive balance is employed to measure the small weight variations of high  $T_c$  superconducting samples when they pass to their superconductive status.

We describe the challenging experimental solutions adopted for having a very efficient heat exchange with the samples only through the radiation mechanism and we present the first promising results to reach the goal of this experiment.

**Primary author:** Dr PUPPO, Paola (INFN - ROMA)

**Presenter:** Dr PUPPO, Paola (INFN - ROMA)

**Session Classification:** Gravity and Quantum Mechanics