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

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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.

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