



Contribution ID: 223

Type: **Talk**

The MICROSCOPE mission ready to test the Equivalence Principle in space

Thursday, December 17, 2015 5:55 PM (20 minutes)

MICROSCOPE is a French Space Agency scheduled for launch in 2016, that aims to test the Weak Equivalence Principle in space: one century after the publication of Einstein's General Relativity, it could allow us to reveal a breach in the theory. Thanks to its cutting-edge-technology inertial sensors, it will allow us to measure the Eotvos parameter down to 10^{-15} , two orders of magnitude better than the best current constraints. In this talk, I will motivate the science behind MICROSCOPE and present the mission. I will then summarize its status, with an emphasis on how we will tackle the data analysis challenges.

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Session Classification: 20 - Future challenges and experiments