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MICROSCOPE error data analysis for a test of the principle equivalence in space

Wednesday, July 7, 2021 10:00 AM (30 minutes)

MICROSCOPE aims to test the Weak Equivalence Principle with unprecedented accuracy. The satellite was launched in 2016 and terminated its operations end of 2018. Since then, the in-orbit collected data of science and technological experiments has been extensively analysed to evaluate the performance of each subsystem. While waiting for this final result, we can unveil the two major points on which we pay some efforts to lead to the future release of EP test: the temperature sensitivity of the experiment and the disturbances brought by the satellite craking into the the data process. At this time, the data processing of all data is finished, the final result is under submission and should improve the previous publication [Touboul et al, 2017].

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