Numerical modeling of the MICROSCOPE space mission

M. List (1), S. Grotjan (1), H. Selig (1), H. Dittus (1)

(1) ZARM, University of Bremen, Bremen, Germany

The french space mission aims at testing the weak equivalence principle up to an accuracy of $\eta = 10^{-15}$. The experiment will be started in april 2009 on board of a small satellite from the CNES–micro–SAT–Line. The desired accuracy of measurement will be provided with the help of high–precision capacitive differential accelerometers, designed and build by the french department ONERA. ZARM is one of the institutes with primary right of access to the science data of the experiment. Comprehensive mission modeling is necessary for the better understanding of the real system including science signal and error sources.

The actual status of the mission modeling will be reported in the context of the presentation.