

Title: **Status and perspectives of experiments testing gravitation**

Name: Hinrich Meyer

Affiliation: University of Wuppertal

Email: meyerw@mail.desy.de

Abstract

Attempts to determine the gravitational constant G with sufficient precision have a long tradition. Furthermore, recent discussions of the dark matter and dark energy problem in astrophysics and astronomy lead to a possible solution by modifying Newtons law (MOND). Despite impressive success in astronomical settings a confirmation of the MOND hypothesis in laboratory experiments is still missing. The present status of the laboratory experiments will be discussed with emphasis on the "GRAVI" experiment at DESY.