

Il Prof.

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nell'ambito del progetto FFR - DiFC "Gravità e fisica quantistica"
terrà un **seminario** dal titolo:

Gravitational decoherence and gravitational wave function collapse: an introduction and overview

giovedì 9 Maggio, ore 15.00 presso l'aula B, DiFC, via Archirafi 36

Tutti gli interessati, in particolare **studenti** e **dottorandi**, sono invitati a partecipare.

Abstract

Gravitational decoherence and gravitational wave function collapse will be presented as two related but conceptually distinct ideas. The first one is the quantification of the effect of external metric fluctuations on the dynamics of quantum systems. The second one is the possibility that gravity plays a role in the collapse of the wave function. Some of the most popular models will be reviewed, in particular the Diosi-Penrose model and the Schroedinger-Newton equation, with an emphasis on their conceptual status, stage of development, and experimental tests.