

Theoretical advances in cosmology

Fakultät für Physik und Astronomie der Universität Heidelberg

Thursday, October 23, 2008, Philosophenweg 12, großer Hörsaal

9:00- 9:40 *L. Amendola (INAF, Roma, Italy):*

Probing gravity, dark energy and dark matter with cosmology

9:40-10:20 *L. Covi (DESY, Hamburg):*

Open questions in cosmology

10:20-11:00 *M. Doran (Heidelberg):*

Is Newtons Constant really fixed between us and the horizon ?

11:00 *Coffee Break*

11:20-12:00 *C. Skordis (Perimeter Institute, Waterloo, Canada):*

Dark matter, dark energy or modified gravity ?

Towards a consistent framework for deciding between the alternatives.

12:00-12:40 *N. Tetradis (Univ. of Athens, Greece):*

Inhomogeneities and cosmological expansion

12:40-13:20 *C. van de Bruck (Univ. of Sheffield, UK):*

Dark energy interactions and their possible signatures

