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A short review of the Dark Energy problem

Modern cosmology faces with an intriguing problem: it seems that 70% of the energy content of the Universe, in the standard scenario, is an unknown, almost homogeneously distributed, non interacting form of repulsive energy, called Dark Energy.

After a short introduction to the standard model of cosmology and to the observational evidences for the Dark Energy component, I will review the various scenarii introduced to explain these observations, including the cosmological constant, new non-standard cosmological fluids (quintessence), modification of gravity and averaged cosmologies, with a particular emphasis on the degeneracies between the models and the possible ways to distinguish between them at the observational level.

Jour inhabituel

Mercredi 9 mai 2007 à 15 heures

Salle André Berthelot, bât. 141

Le café sera servi 15 minutes avant

NB : *La présentation d'une carte d'identité ou d'un passeport est exigée à l'entrée du centre. Tous les auditeurs extérieurs sont priés de prévenir à l'avance de leur visite Emilie Chancrin, tél. 01 69 08 23 50 (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).*