



OAW

Austrian Academy
of Sciences

HEPHY-SMI seminar

on fundamental interactions and symmetries

The cosmological constant puzzle

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ABSTRACT:

The accelerating expansion of the Universe points to a small positive vacuum energy density and negative vacuum pressure. A strong candidate is the cosmological constant in Einstein's equations of General Relativity. The vacuum dark energy density extracted from astrophysics is 10^{56} times smaller than the value expected from the Higgs potential in Standard Model particle physics and 10^{44} times smaller than the contribution expected from QCD condensates. The dark energy scale is however close to the range of possible values expected for the light neutrino mass. We discuss the cosmological constant puzzle and (new) ideas how to solve it.

DATE:

Wednesday, 17.04.2013 - 17:00 s.t.

VENUE:

Stefan Meyer Institute
for subatomic Physics
1090 Wien, Boltzmannngasse 3
Seminarraum 2.08

<http://www.smi.oeaw.ac.at/groups/hephysmiseminar/>



Stefan-Meyer-Institut
für subatomare Physik

