



Πανεπιστήμιο
Κύπρου

The Department of Physics at the University of Cyprus
is organizing a seminar on

Thursday, 1 of December 2016, time 2:00 p.m.

Room B229, Building 13, New Campus

Speaker:

Prof. Kyriakos Tamvakis

Department of Physics, University of Ioannina

“Classically Scale-Invariant extensions of the Standard Model”

We consider classically scale invariant versions of the Standard Model, extended by an extra $SU(2)_X$ or $SU(3)_X$ gauge group factor. Apart from the dark gauge bosons and a dark scalar which is coupled to the Standard Model Higgs through a portal coupling, right-handed neutrinos can be incorporated leading to the observed neutrino masses. After symmetry breaking a la Coleman-Weinberg, we examine the multi-Higgs sector and impose theoretical and experimental constraints. In addition, by computing the dark matter relic abundance and the spin-independent scattering cross section off a nucleon we determine the viable dark matter mass range in accordance with present limits.

For more information please contact:
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