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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