

Low energy particle physics: the other frontier

Abstract content

It is shown that particle physics experiments at low energies may reveal complementary information on theories beyond the standard model (BSM). In particular, we will show that neutrino experiments with a very low threshold detection can set relevant constraints in Leptoquark models. super symmetric models, on possible CP violation signals, tensorial non-standard interactions among others. Furthermore, we explore the possibility of unveiling the Majorana-Dirac nature of the neutrino through the detection of the coherent neutrino-nucleus scattering.

Summary

Primary author(s) : Dr. BARRANCO MONARCA, Juan (DCI-UG)

Presenter(s) : Dr. BARRANCO MONARCA, Juan (DCI-UG)