

Tuesday, November 16th, 2:30 pm

Speaker: David Cerdeno

Institution: Autonomous University of Madrid

Title: Neutrinos in dark matter experiments: Friends or foes?

Abstract:

Neutrinos and dark matter have one thing in common: both are 'invisible', as they interact very feebly with ordinary matter. In fact, neutrinos can mimic a dark matter signal in upcoming direct detection experiments, posing a challenge for the identification of these exotic particles. However, a more positive prospect is that dark matter experiments will soon be able to test new physics in the neutrino sector! In this talk I will show how this can be used to learn more about the Sun or low-energy phenomena, such as the muon anomalous magnetic moment.