

**ore 12.30: Seminario del vincitore della procedura valutativa a PA SSD FIS/01 Dr. Andrea Messina**

Titolo: Search for Dark Matter candidates with direct detection experiments

Abstract:

Many gravitational evidences are in support of dark matter, however its nature as a particle has yet to be observed.

Direct detection experiments aim at answering this question by the observation of dark matter candidates interacting in their detector.

In this seminar, I will introduce the key properties of dark matter signals and discuss some of the ongoing experimental efforts in their detection. In particular, I will focus on Darkside and Cygno, two experiments that are tackling this search in complementary ways.