

DAMA

Thursday, 7 May 2015 10:00 (15 minutes)

The DAMA project is an observatory for rare processes that develops and uses highly radiopure crystal scintillators. It consists of various low-background apparatus located in Gran Sasso laboratory. DAMA has a pioneer activity in the direct investigation of Dark Matter. In particular, its main experiment, DAMA/LIBRA, gave evidence for the presence of Dark Matter particles in the galactic halo by exploiting the model-independent annual modulation signature. This result confirms the evidence obtained by the former DAMA/NaI experiment. DAMA/LIBRA is now running in a new phase of measurement with an increased sensitivity. Other searches for rare events, such as double beta decay in various isotopes, axions, etc., are carried out with the other set-ups. In the seminar the main results obtained by DAMA in all its field of activity will be presented as well as the present measurements and advanced perspectives.

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