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Status and perspetives of DAMA/LIBRA

Wednesday 17 May 2017 12:10 (20 minutes)

The DAMA/LIBRA set-up (about 250 kg highly radiopure NaI(Tl)) is
currently in data taking at the Gran Sasso National Laboratory of
the I.N.F.N. in its phase2. This experiment is dedicated to the
investigation of Dark Matter (DM) particles
in the galactic halo mainly by exploiting the model
independent Dark Matter annual modulation signature.
DAMA/LIBRA collected in its first phase data over
7 annual cycles corresponding to an
exposure of 1.04 ton $\times$ yr (DAMA/LIBRA–phase1).
The DAMA/LIBRA–phase1 and the former DAMA/NaI data
(cumulative exposure 1.33 ton $\times$ yr, corresponding to 14 annual
cycles) give evidence at 9.3 σ C.L. for the presence of Dark Matter
particles in the galactic halo on the basis of the model independent DM
annual modulation signature by using highly radio-pure NaI(Tl) target. In
this talk some new recent analyses performed on the released data will be
presented as well as perspectives of the present phase-2.
Future perspectives of the experiment will also be addressed.

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