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DAMA/LIBRA results and perspectives

Saturday, 21 October 2017 09:30 (30 minutes)

The DAMA/LIBRA set-up (about 250 kg highly radiopure NaI(Tl)) is running at the Gran Sasso National Laboratory of INFN in its phase2. The positive results obtained by the phase 1 exploiting the model independent Dark Matter (DM) annual modulation signature for the presence of DM particles in the galactic halo will be summarized. The data satisfy all the many requirements of the DM annual modulation signature at high confidence level. Several recent analyses on particular scenarios and second order effects will be introduced. Presently DAMA/LIBRA is in data taking in the new configuration with higher quantum efficiency PMTs. Results, implications and experimental perspectives will be addressed.

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