



Contribution ID: 63

Type: **not specified**

Particle Dark Matter signal in DAMA/LIBRA

Wednesday, May 25, 2011 2:30 PM (30 minutes)

The DAMA/LIBRA set-up (about 250 kg highly radiopure NaI(Tl)) is running at the Gran Sasso National Laboratory of the I.N.F.N..

It has already released the results obtained in 6 annual cycles; the cumulative exposure with the one released by the former DAMA/NaI is $1.17 \text{ ton} \times \text{yr}$, corresponding to 13 annual cycles. The data further confirm the model independent evidence for the presence of Dark Matter particles in the galactic halo on the basis of the Dark Matter annual modulation signature (8.9 sigma C.L.). The data of a further annual cycle have already been collected before the new important upgrading performed at the end of 2010. The set-up has now started the data taking in this new configuration. Results, comparisons and perspectives will be summarized.

Primary author: Dr CERULLI, Riccardo (LNGS)

Presenter: Dr CERULLI, Riccardo (LNGS)

Session Classification: Parallel session 1: Dark Matter Search