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DAMA/LIBRA results

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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.. Results of six annual cycles exploiting the model independent annual modulation signature for Dark Matter particles in the galactic halo are presented (exposure of 0.87 ton x yr). The cumulative exposure with those previously released by the former DAMA/NaI is now 1.17 ton × yr, corresponding to 13 annual cycles. The data further confirm the model independent evidence of the presence of Dark Matter particles in the galactic halo, giving a confidence level of 8.9 sigma; they satisfy all the many peculiarities of the Dark Matter annual modulation signature. In particular, the measured phase and the measured period are well in agreement with those expected for the Dark Matter particles.

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