

LATEST RESULTS FROM THE PICASSO SEARCH FOR DARK MATTER EXPERIMENT

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The Project In CANada to Search for Supersymmetric Objects (PICASSO) is a direct search for dark matter experiment which has been running since 2006. It is located 2km underground in the SNOLAB in Sudbury, Ontario.

PICASSO is looking for one of the most favorable candidate for dark matter, the neutralino, a weakly interacting massive particle (WIMP).

PICASSO uses mini bubble chambers as its active detector and C_4F_{10} as the superheated liquid. It consists of 32 detectors which were completely installed this fall. Now the collaboration is mainly focusing on data analysis.

In this talk I will give an overview on dark matter then present the experiment in itself, its principles and the detectors and finally I will talk about the latest results of PICASSO.

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