



ID contributo: 5

Tipo: non specificato

Light Nuclei and Antinuclei Production in ALICE

The ultra-relativistic Pb-Pb collisions involve high baryon density and high temperature, therefore they provide a favourable environment for producing and studying light nuclei and antinuclei. In the ALICE experiment at LHC several analyses are ongoing, aimed at measuring their yield and their properties in pp and Pb-Pb collisions. The analyses rely on the excellent PID capabilities of the experiment, and are based on the specific energy loss of the (anti) nuclei in the Time Projection Chamber (TPC) and on other information gathered by the Time of Flight (TOF) system. Results from these analyses will be presented, together with a selection of the most up-to-date results related to the measurement of light nuclei and antinuclei.

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