

A liquid hydrogen target and a Time Projection Chamber for R3B

Wednesday, 5 April 2017 16:40 (20 minutes)

In this talk I will present a project to build a Time Projection Chamber (TPC) to fit inside the gap of GLAD dipole magnet. This will allow benefiting of the bending power of GLAD for rigidity measurement of charged particles. To maximize the acceptance, the target will be placed at the entrance of the TPC chamber. I will present a design combining a thick liquid hydrogen target to the TPC.

The capability of measuring high-energy charged particles will be particularly interesting for experiments implying high energies of the beam, and therefore of the ejectiles, beyond the detection threshold of CALIFA array. This will be the case, for example, of short-range correlations studies, that demand beam energies above 1 GeV/u.

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