## Annual meeting of the Swiss Physical Society 2018



Contribution ID: 186

Type: Talk

## 【354】 First results from the 3x1x1 m<sup>3</sup> dual phase Liquid Argon Time Projection Chamber prototype at CERN

Thursday 30 August 2018 17:45 (15 minutes)

The Liquid Argon Time Projection Chamber (LAr TPC) is currently the most attractive technology for neutrino oscillation studies. Both single phase and dual phase LAr TPCs are now in the design and prototyping phase in the context of the Deep Underground Neutrino Experiment. The dual phase operation allows to amplify the charge signal, offering several advantages over the single phase.

The first large scale dual phase LAr TPC with an active volume of 3x1x1 m<sup>3</sup> has been operated at CERN in 2017. This poster will give a detailed overview of the different reconstruction stages for dual phase LAr TPC data. Furthermore, results on the liquid argon purity, charge readout uniformity and charge-light matching for the 3x1x1 m<sup>3</sup> prototype are presented.

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Session Classification: Nuclear, Particle- & Astrophysics (TASK)

Track Classification: Nuclear, Particle- and Astrophysics (TASK)