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The ARGONTUBE, a R&D liquid Argon Time Projection Chamber

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For future neutrino oscillation experiments new large mass scale detectors are needed. One possible type of such detectors could be the liquid Argon Time Projection Chamber (LAr TPC). Therefore, some technical challenges have to be met: purity of the LAr, high voltage supply, calibration etc. To face these challenges, a R&D LAr TPC is now under development at the LHEP of the University of Bern. The goal is to reach a drift length of 5m in liquid Argon and prove the feasibility of large volume TPCs.
In this talk, different aspects of the technology will be reviewed and recent achievements presented.

Author: Dr RUDOLF VON ROHR, Christoph (LHEP)

Presenter: Dr RUDOLF VON ROHR, Christoph (LHEP)

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