



## Poster session 3 – Wednesday 6 July

### P3.013 Purity monitoring for ProtoDUNE

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*on behalf of the DUNE collaboration*

Liquid argon purity is crucial to use liquid argon time projection chamber (LArTPC) in large detectors. A purity monitor is a miniature TPC which measures lifetime of photoelectrons generated by its UVilluminated gold photocathode to measure the purity of liquid argon. ProtoDUNE is a full-scale prototype single-phase LArTPC that will be built at CERN and perform beam tests. This poster will give an introduction to liquid argon purity monitor and a proposal to deploy purity monitors in ProtoDUNE.