



Contribution ID: 673

Type: Poster

Measurement of the Higgs boson mass in the $H \rightarrow ZZ \rightarrow 4l$ channel with the full Run 2 dataset.

Friday, 8 July 2022 20:10 (20 minutes)

This poster will present a measurement of the Higgs boson mass in the four-lepton decay channel using 139 fb^{-1} of proton-proton collision data at the Large Hadron Collider recorded by the ATLAS detector, corresponding to the full Run 2 dataset. For a Higgs boson with $m_H = 125 \text{ GeV}$, the expected total (stat) uncertainty is 181 MeV (178 MeV).

In-person participation

Yes

Primary author: JINNOUCHI, Osamu (Tokyo Institute of Technology)**Presenter:** YAN, Siyuan**Session Classification:** Poster Session**Track Classification:** Higgs Physics