

## Higgs Hunting 2022



ID de Contribution: 78

Type: Non spécifié

# HH production at the High-Luminosity LHC with CMS

*mercredi 14 septembre 2022 14:55 (12 minutes)*

The High-Luminosity Large Hadron Collider (HL-LHC) is expected to deliver an integrated luminosity of up to 3000 fb<sup>-1</sup>. The very high instantaneous luminosity will lead to about 200 proton-proton collisions per bunch crossing (“pileup”) superimposed to each event of interest, therefore providing extremely challenging experimental conditions. CMS prospects on Higgs self-coupling measurements and HH production at the HL-LHC are presented.

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**Classification de Session:** Young scientist forum