



Contribution ID: 498

Type: **Oral Presentation**

Searches for double Higgs production or decay using the CMS detector (15' + 5')

Friday 5 August 2016 11:30 (20 minutes)

The production of the pairs of Higgs bosons provides a direct handle on the structure of the Higgs field potential. While the HH production within the SM is very small and essentially out of the experimental reach within the Run I or II, several beyond SM theories foresee an enhancement that can be already probed with the available data. Searches for resonant and non-resonant productions of pairs of HH bosons within BSM theories made by the CMS collaboration will be presented.

Author: ORTONA, Giacomo (Centre National de la Recherche Scientifique (FR))

Presenter: ORTONA, Giacomo (Centre National de la Recherche Scientifique (FR))

Session Classification: Higgs Physics

Track Classification: Higgs Physics