



Contribution ID: 185

Type: **Oral Presentation**

## **Search for resonant production of HH decaying to the bbZZ final state at CMS**

*Wednesday 31 July 2019 16:48 (24 minutes)*

A search for the production of two Higgs bosons, where one Higgs boson decays into two b quarks and the other decays into two Z bosons is presented. The analysis is based on data collected by the CMS detector during the 2016 proton-proton running of the LHC. Upper limits at 95% confidence level are placed on the production cross section of a narrow-width spin-0 or spin-2 particle decaying to a pair of Higgs boson.

**Primary author:** HORTIANGTHAM, Apichart (Northeastern University (US))

**Presenter:** HORTIANGTHAM, Apichart (Northeastern University (US))

**Session Classification:** Higgs & Electroweak Physics

**Track Classification:** Higgs & Electroweak Physics