



Contribution ID: 245

Type: **Parallel session talk**

## Searches for resonances in multi-boson final states in CMS

*Tuesday 22 August 2023 16:20 (15 minutes)*

Resonances in multi-boson final states (VVV, VV, VH, HH and HY, where  $V = W, Z$  and  $Y$  is a new scalar particle) with the CMS detector are presented. The results are based on the large dataset collected during Run 2 of the LHC at a centre-of-mass energy of 13 TeV. The analyses are optimised for high sensitivity over a large range in resonance mass. Many of the relevant backgrounds are estimated data-driven techniques and results are interpreted under various beyond the Standard Model scenarios.

### Collaboration / Activity

CMS

**Primary authors:** MALARA, Andrea; CMS

**Presenter:** MALARA, Andrea

**Session Classification:** T10 Searches for New Physics

**Track Classification:** Searches for New Physics