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LHC Electroweak Multiboson Subgroup

This public page documents relevant discussions and results in the Multiboson subgroup of the LHC electroweak group.

Organization of the Group

The activities of the group are organised by subgroup conveners:

- **ATLAS:** Kristin Lohwasser, Shu Li, Louis Helary
- **CMS:** Chia-Mng Kuo, Pietro Vischia
- **Theory:** Jonas Lindert and Celine Degrande
- Send mail to conveners

The activities of the group include:

- Discussion on theory developments in the multiboson area and their implications on the experimental measurements
- Discussion on common methodologies for the LHC multiboson measurements
- Efforts to provide guidelines on the common fiducial definitions for future LHC multiboson measurements
- Production of ATLAS+CMS summary plots on anomalous coupling limits and on multiboson cross-section measurements
- Combination of limits on anomalous gauge boson couplings from ATLAS and CMS

Meetings and Mailing Lists

- Indico link: <https://indico.cern.ch/category/3290/>
- Sign up to the mailing list of the subgroup
- gitlab project
- Monte Carlo Comparison

ATLAS+CMS Summary Plots

- Updated and maintained by contact persons from ATLAS and CMS
 - ◆ Contact person(s) from ATLAS on the summary plots: Carsten Bittrich (aGCs), Marc-Andre Pleier (aGCs)
 - ◆ Contact person(s) from CMS on the summary plots: Matt Herndon (aGCs)
- Requests, updates, and discussions on the summary plots can be followed up in the mailing list
 - ◆ LHC-EWWG-MB-SummaryPlot@cern.NOSPAMPLEASE.ch
- Public page for summary plots
 - ◆ Anomalous coupling limits
 - ◆ Multiboson cross-section measurements (To be added)

ATLAS+CMS Combination of Anomalous Coupling Limits

- 7 TeV ATLAS+CMS combination of neutral aTGCs in the ZZ channel:
ATLAS-CONF-2016-036 ; CMS-PAS-SMP-15-001 [↗](#)

-- Yusheng Wu - 2017-05-09 -- Alexander Oh - 2015-06-19

This topic: LHCPHysics > EWG3

Topic revision: r8 - 2019-04-26 - Pietro Vischia



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