



Contribution ID: 27

Type: **Parallel talk**

Opposite-sign WW production with Run3 data in ATLAS

Wednesday, 8 April 2026 16:30 (15 minutes)

The W^+W^- process is very interesting in that it can provide important tests of the electroweak gauge structure of the Standard Model. This contribution focuses on the opposite-sign opposite-charged $W^+W^- \rightarrow e\mu\nu\nu$ production, where a measurement with the partial Run3 dataset could provide insights on the CP nature of the anomalous triple gauge coupling.

In particular, this contribution will focus on unfolding. Unfolding refers to the procedure of removing all the detector effects (reconstruction inefficiency and acceptance) in order to obtain the “truth” distribution starting from the measured one, which is then used to measure the differential cross-section. In this contribution, I will present the unfolding performed on CP- and EFT-sensitive observables, both kinematic (ex. $\Delta\Phi(e, \mu)$) and NN-derived observables.

This analysis is aiming for publication by this Summer.

Author: PLEBANI, Alberto (University of Cambridge (GB))

Co-author: WILLIAMS, Sarah Louise (University of Cambridge (GB))

Presenter: PLEBANI, Alberto (University of Cambridge (GB))

Session Classification: Parallel Talks

Track Classification: Collider physics