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The ATLAS jet trigger and the search for CP violation in WH production

In this talk I will briefly present some of the highlights of my PhD work so far. In the first part, I will introduce the main upgrade done in the ATLAS jet trigger in view of the Run 3 of the LHC and several of the studies done to ensure its readiness and optimal performance. On the second part, I will describe my ongoing work on the optimization of the search for CP violation in the HWW interaction via WH production, including the use of statistical techniques to benchmark different observables and the introduction of multivariate methods to reconstruct (statistically) optimal observables

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