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Measurement of the electroweak diboson production in the $W\pm Z$ channel, with the ATLAS detector at LHC

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This presentation summarises the work I have done so far for my PhD. First, the presentation introduces the audience to the VBS process, why it is important and what is its signature in the detector. Then, it proceeds with the QCD background modelling studies that were performed using the MG5_aMC@NLO MC generator. Moreover, it briefly discusses the work I have been doing for my Qualification Project, related to improving diboson simulations. Finally, it shows some preliminary results on Unfolding studies for differential cross section measurements and next steps that need to be taken.

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