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Measurements of WZ properties in Run 3 with the CMS detector

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The production of dibosons (VV, where V can be either a W or Z boson) holds a crucial role in the understanding of the electroweak sector of the Standard Model as well as its possible extensions. The WZ process allows to test several theoretical features of interest, such as: charge asymmetries in the initial state, measurement of the polarization fractions for W and Z bosons and provides direct access to trilinear gauge couplings. The properties of the WZ production have been measured with high precision on several occasions by both CMS and ATLAS collaborations at different centre of mass energies of 5, 7, 8 and 13 TeV in pp collisions at LHC, using final states with three leptons. With the beginning of Run 3 in 2022 and the achievement of a new energy frontier in proton-proton collisions at 13.6 TeV at the LHC, the CMS Collaboration is starting to perform their first studies and measurements of the WZ process at this new energy.

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