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Electroweak boson results from CMS

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Electroweak production is an important benchmark in heavy-ion collisions at the LHC. Electroweak bosons (W and Z) do not participate in strong interaction and their leptonic decays play as an idea tag to probe properties of jets that interact with the medium strongly. They, moreover, constrain nuclear parton distribution functions (nPDFs) in unexplored region of Qˆ2 - x phase space. They can also provide insights into the parton distribution function of neutrons. Measurement of W and Z bosons in pPb collision at 5.02 TeV will be presented in both muon and electron channel decays. The results are compared to theory prediction with and without nuclear modification. In addition, final results of W and Z production in PbPb collisions at 2.76 TeV compared to pp at the same energy collisions will also be mentioned.

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