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Neutrinos and hard probes in heavy ion collisions

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One of the surprising results to come out of the LHC heavy ion programme is the observation of the Z and W bosons, which provide important information about hard scattering in nucleus-nucleus collisions. In high energy collisions neutrinos cannot be directly observed, but are rather observed through missing energy. This is already challenging in proton-proton collisions, and even more so in Pb-Pb collisions with up to 1000 times more particles produced. I will present results of the W->l \nu_l measurements in Pb-Pb collisions at the LHC and discuss how finding the missing energy of the neutrinos play an important role in these measurements.

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