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Boson production in lead-lead collisions in the ATLAS experiment

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Lead-lead collisions at the LHC have are capable of producing a system of deconfined quarks and gluons at unprecedented energy density and temperature. Partonic-level interactions and energy-loss mechanisms in the medium can be studied with the aid electroweak bosons which carry an important information about the properties of the medium. Electroweak bosons form a class of unique high-pT probes because they or their decay products do not interact with the strongly-coupled medium, providing a benchmark for a variety of other phenomena measured with strongly interacting particles.

The ATLAS experiment measures isolated high-pT photons, W and Z bosons via different decay channels. New a

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