

# MONTE CARLO DETERMINATION OF THE EFFICIENCY MATRIX FOR DIBOSON DECAYS INTO ELECTRONS AT ATLAS\*

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The LHC is expected to start in 2009. Pairs of weak bosons (W, Z) will be produced at higher rates than are available at the Tevatron. The production cross sections are sensitive to new physics, and the dibosons can be observed using their fully leptonic decays. A Monte Carlo matrix study was performed to determine the efficiency for detecting dibosons produced at the LHC using the ATLAS detector. The results are compared to theoretical calculations.

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