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A measurement of the ϕ^* angle in Drell-Yan di-lepton pairs

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The ϕ_η^* angle of Drell-Yan di-lepton pairs probes initial state gluon radiation and its definition relies only upon the well-measured lepton directions. The ϕ_η^* distribution is sensitive to similar but complementary physics to the intermediate boson transverse momentum distribution. A measurement of the normalised ϕ_η^* differential cross section around the Z-pole was made using the ATLAS detector at 7 TeV. In this talk progress towards an updated measurement using the full 8 TeV dataset is presented.

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