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Identified particle production in inelastic pp events with the ATLAS detector

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Studies of the long-lived resonances Ks and Lambda, reconstructed in inelastic collisions at 900 GeV and 7 TeV using a minimum bias trigger, have been performed using the ATLAS inner tracking detector. The spectra for these resonances are measured as a function of their transverse momentum and rapidity, and compared with Monte Carlo models. The ratio of anti-Lambda to Lambda production is evaluated, providing further tests of Monte Carlo models. The results are corrected for all detector effects, to simplify comparisons to models and other experiments.

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