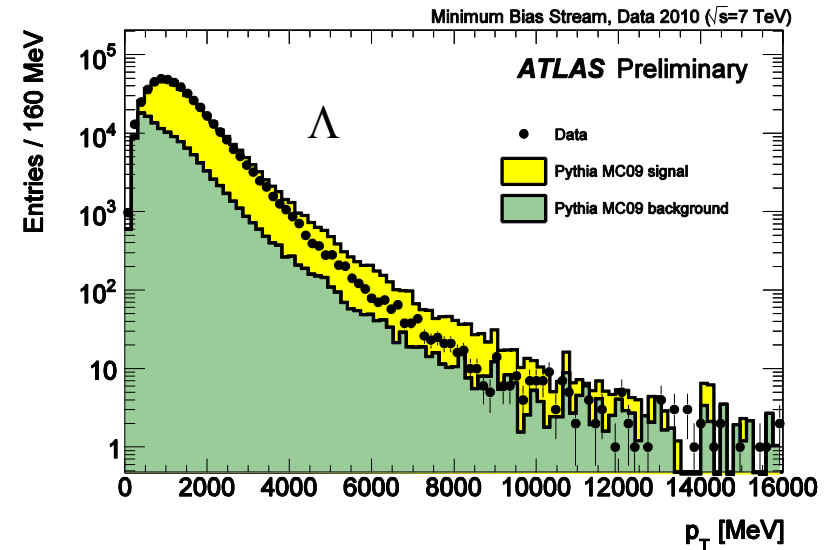
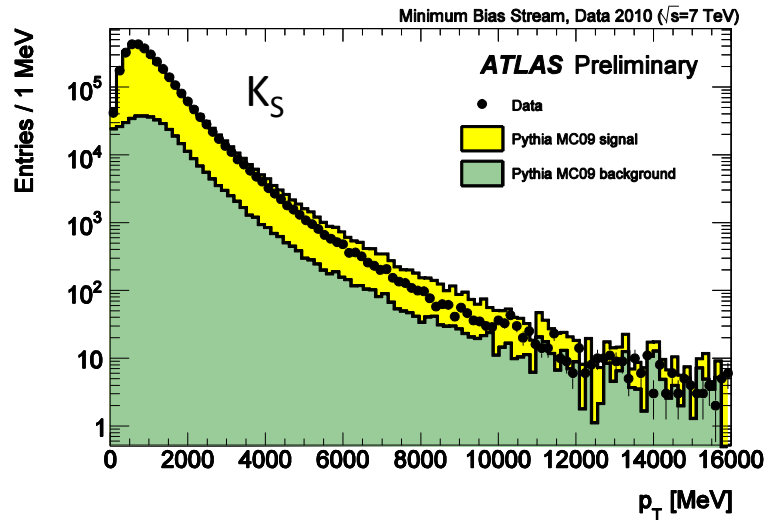


ATLAS Strangeness Production Measurements

Jed Biesiada, Emily Nurse

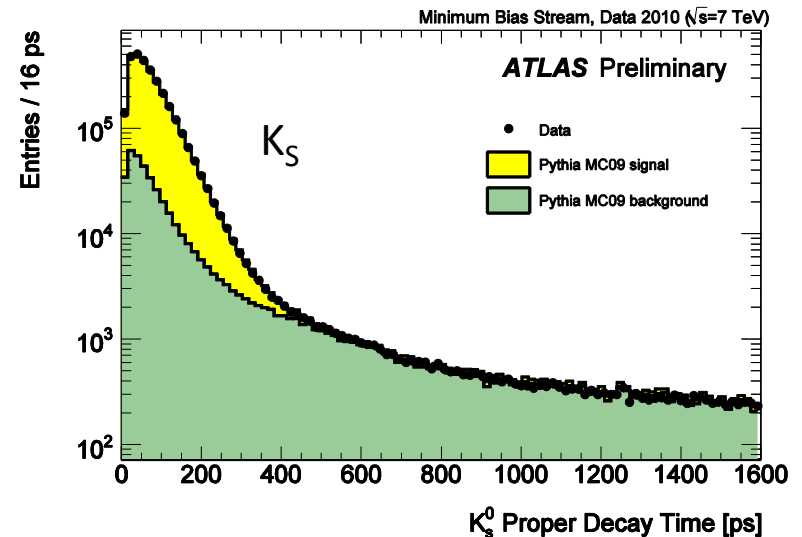
PLHC: detector-level comparisons between data and Pythia MC09 tune



Event selection based on the ATLAS charged-particle minimum-bias analysis

Signal-to-background ratio adjusted in MC to match data, no other corrections for efficiencies or other detector effects

<http://cdsweb.cern.ch/record/1277668>



Plans

- Measure hadron-level distributions of transverse momentum, rapidity, and multiplicity for K_S and Λ hadrons
- Measure $\Lambda\text{bar}/\Lambda$ ratio versus transverse momentum and rapidity
- At 0.9 and 7 TeV
- Restrict hadron-level phase space to the tracking acceptance at detector level (avoid model-dependent extrapolation at hadron-level to regions not measured)