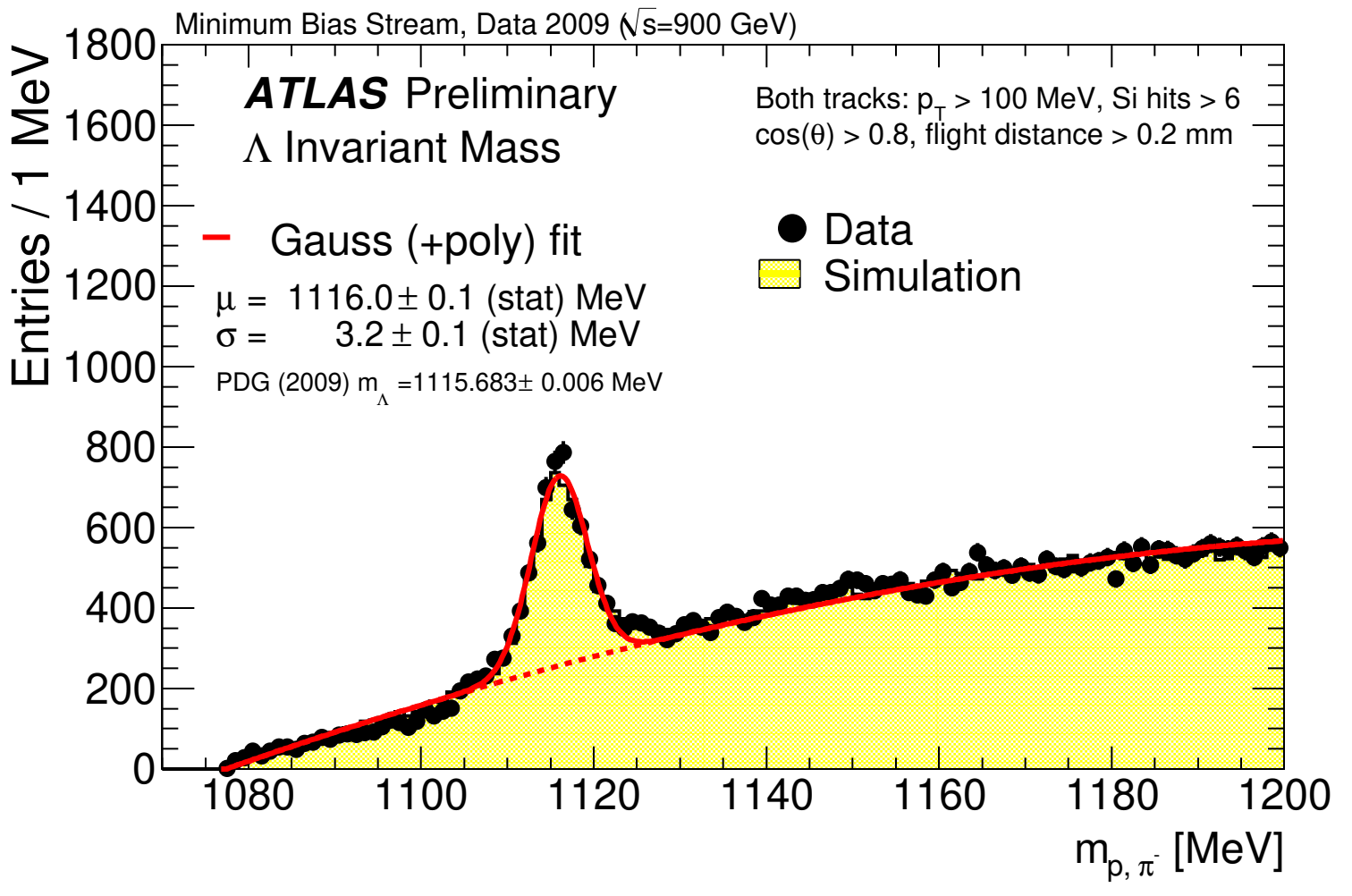
Minimum Bias Stream, Data 2009 (√s=900 GeV)
ATLAS Preliminary
Λ Invariant Mass
Both tracks: p_T > 100 MeV, Si hits > 6
cos(θ) > 0.8, flight distance > 0.2 mm
Gauss (+poly) fit
Data
Simulation
μ = 1116.0 ± 0.1 (stat) MeV
σ = 3.2 ± 0.1 (stat) MeV
PDG (2009) m_Λ =1115.683± 0.006 MeV
Entries / 1 MeV
m_p, π⁻ [MeV]
0
200
400
600
800
1000
1200
1400
1600
1800
1080
1100
1120
1140
1160
1180
1200