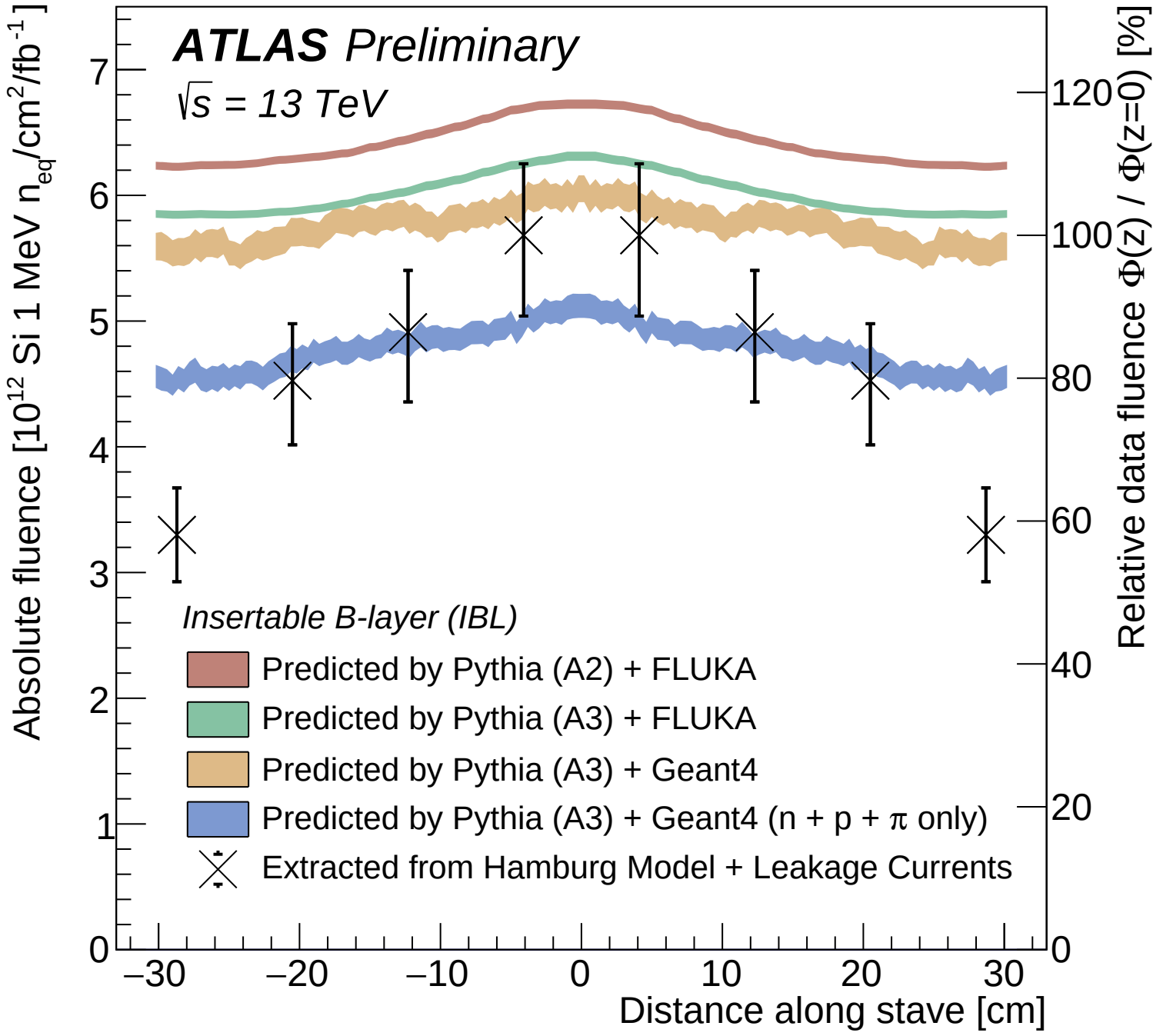
ATLAS Preliminary
√s = 13 TeV
Insertable B-layer (IBL)
Predicted by Pythia (A2) + FLUKA
Predicted by Pythia (A3) + FLUKA
Predicted by Pythia (A3) + Geant4
Predicted by Pythia (A3) + Geant4 (n + p + π only)
Extracted from Hamburg Model + Leakage Currents
Absolute fluence [10^12 Si 1 MeV n_eq/cm^2/fb^-1]
Relative data fluence Φ(z) / Φ(z=0) [%]
Distance along stave [cm]
0
1
2
3
4
5
6
7
0
20
40
60
80
100
120
−30
−20
−10
0
10
20
30