

yield

sPHENIX TPC tracker

● GEANT4 simulation

— prediction

 $\sigma_{\text{ms}}=0.66\%$ $\sigma_{\text{det}}=0.105\%$ $x/X_0=4\%$

— Crystal Ball fit

 $\sigma = 61 \text{ MeV}$

400

200

1000

7.5

8

8.5

9

9.5

10

10.5

 $m[\text{GeV}]$ 