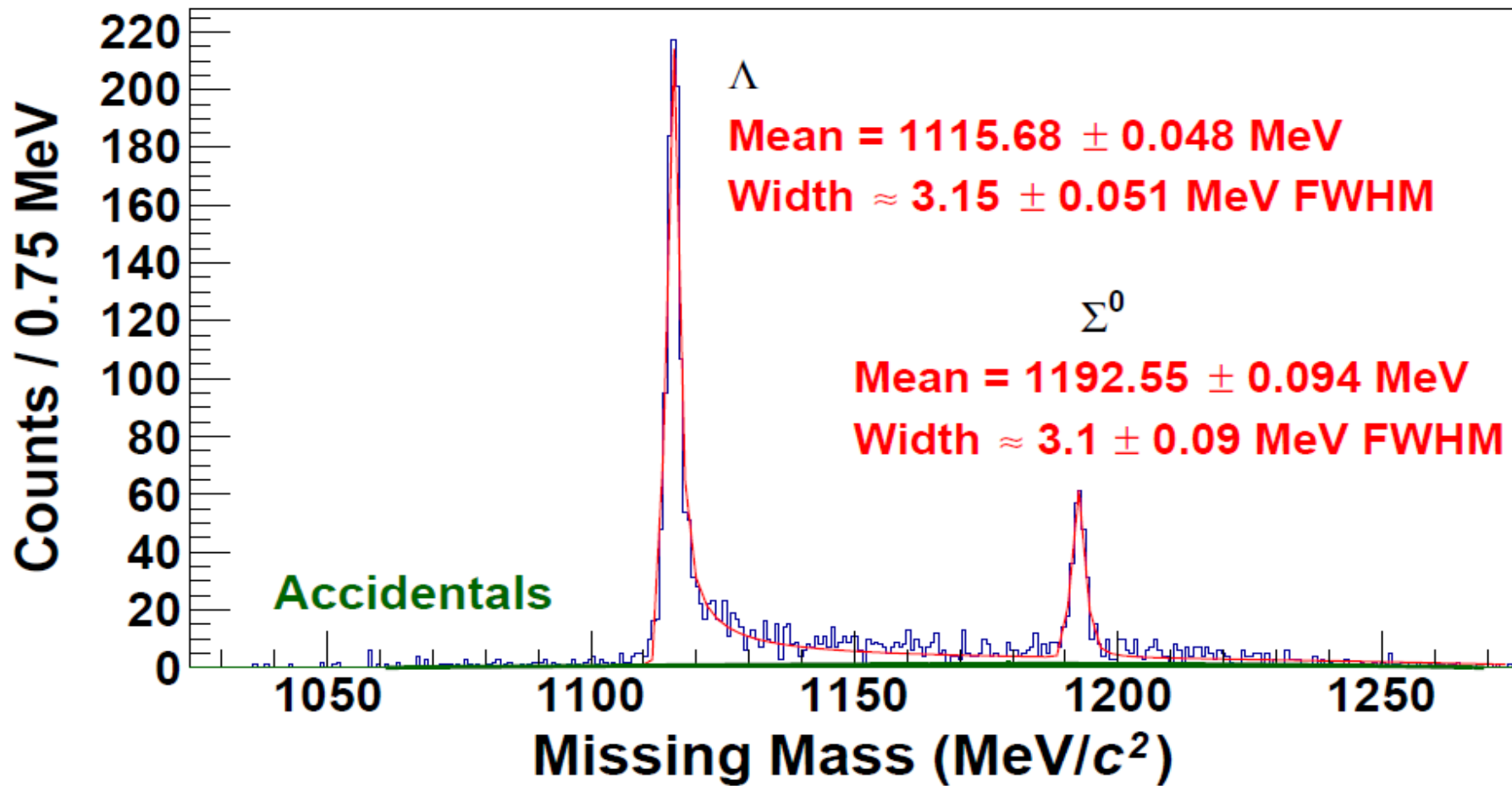


nn Λ Analysis Meeting

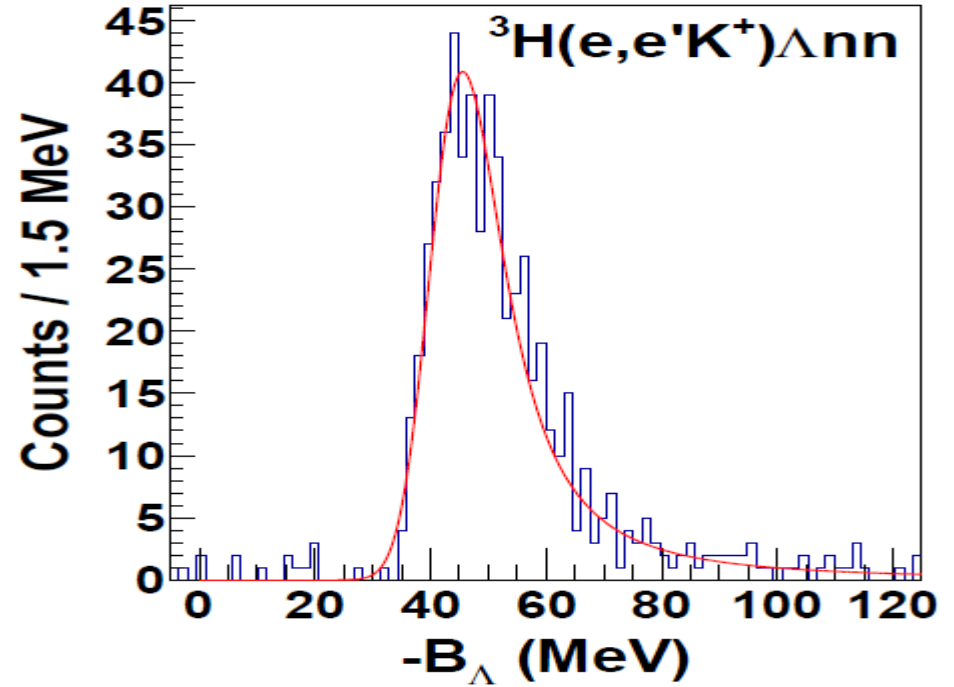
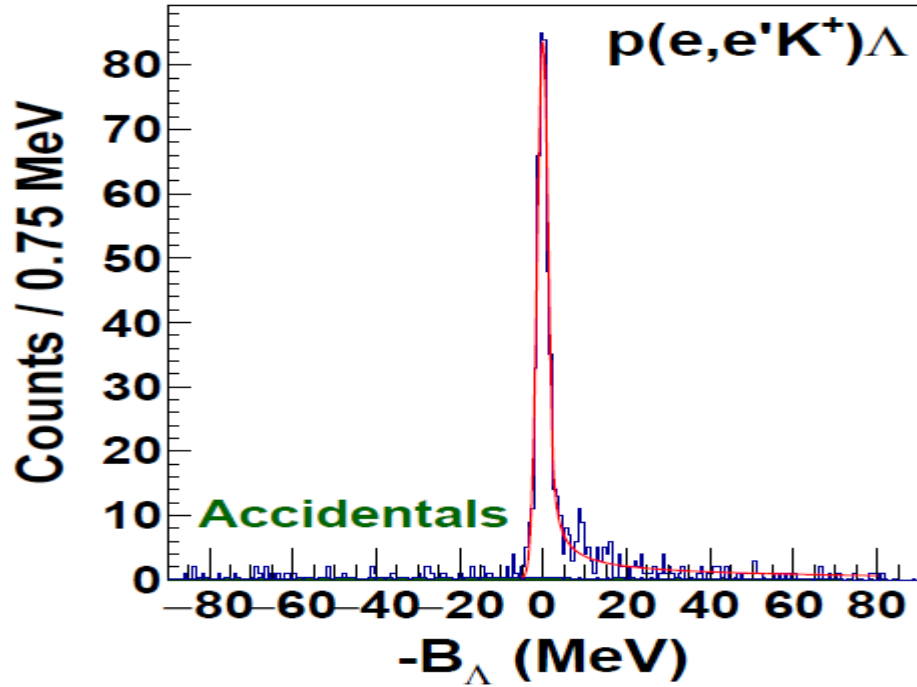
November 4, 2021

Bishnu Pandey
Hampton University

H data in the H kinematics

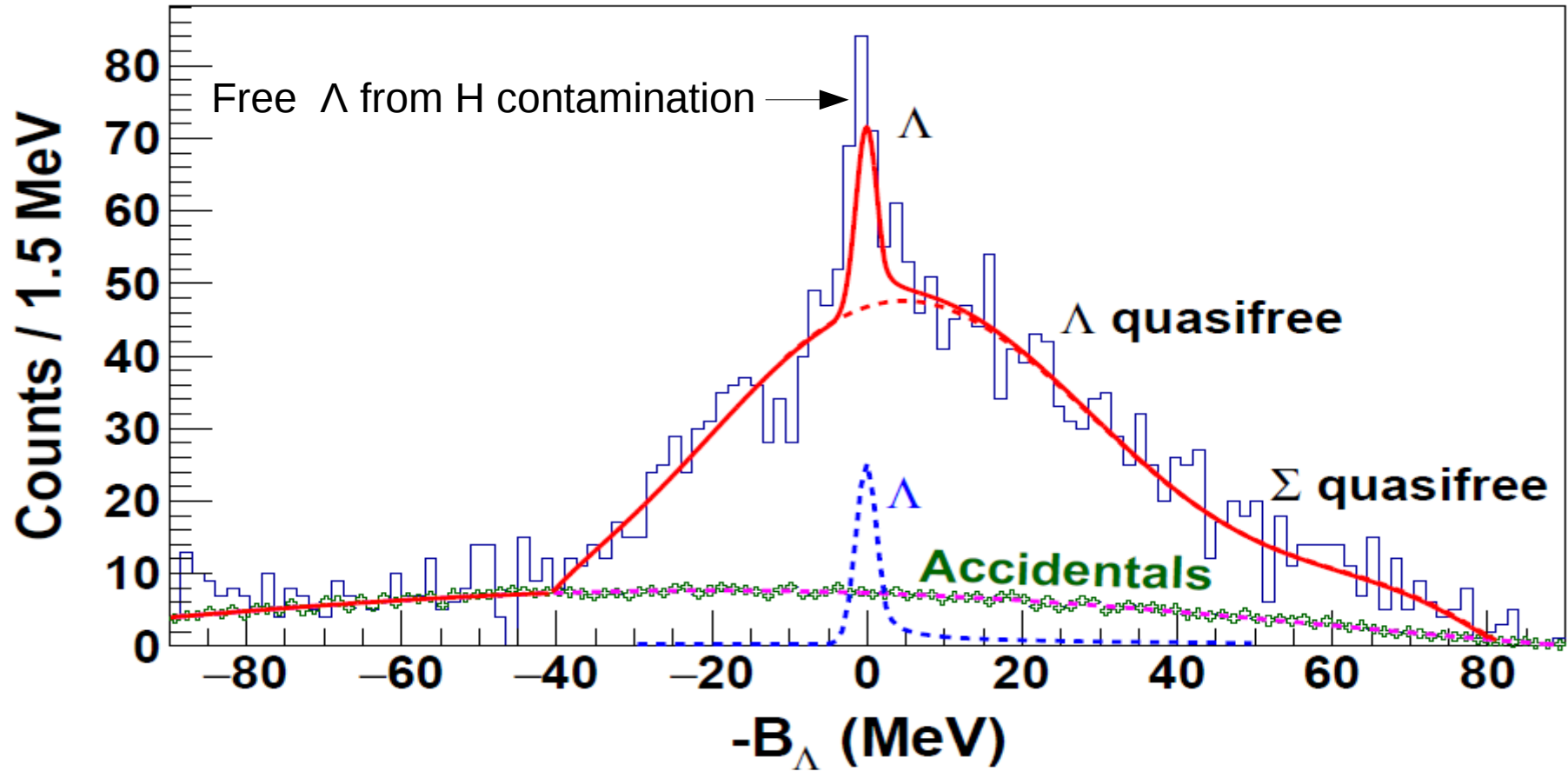


H data in the T kinematics



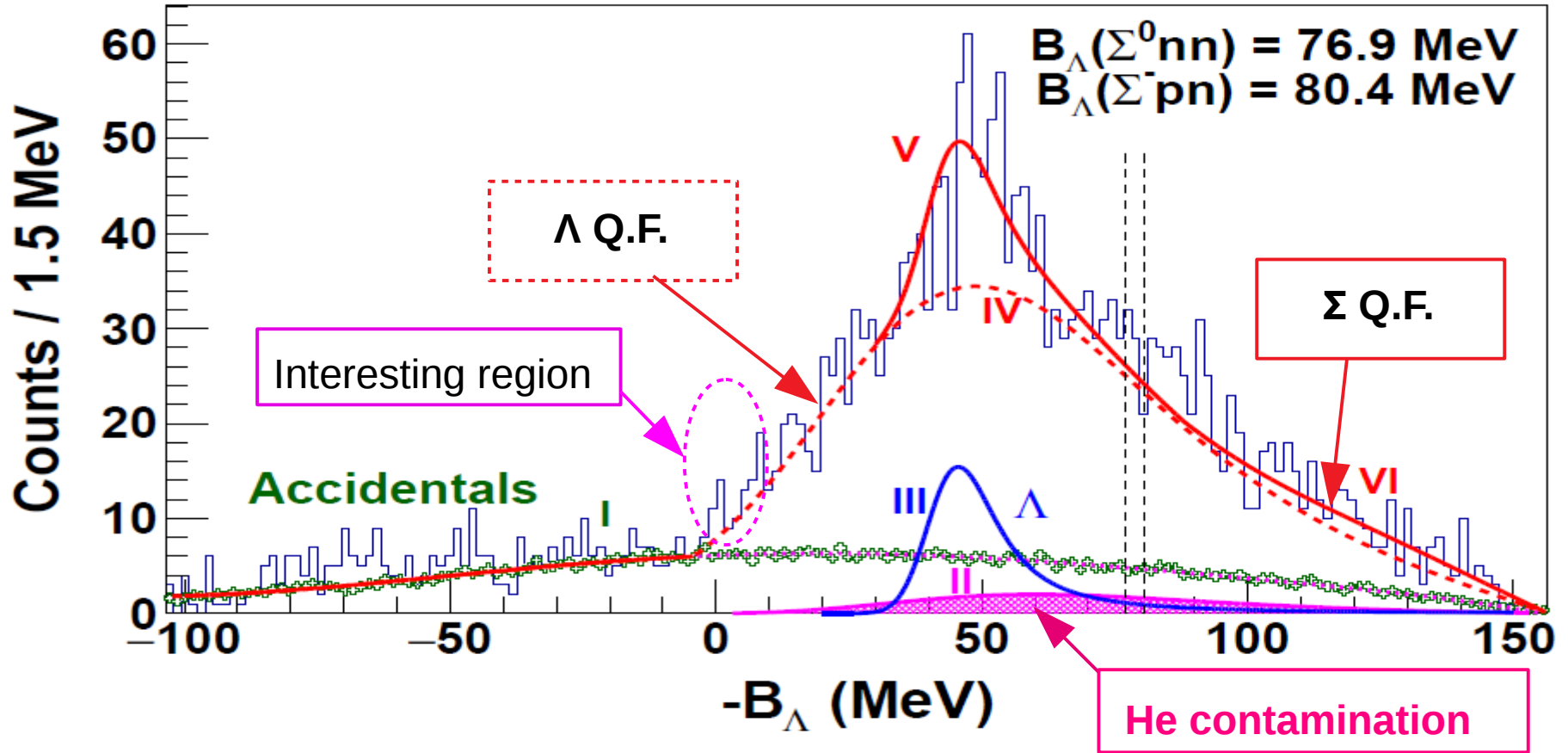
- The first spectrum is analyzed by considering H kinematics and the second one is analyzed considering tritium kinematics.
- The broadening of the second peak is because of the wrong kinematics.

Tritium data in the H kinematics



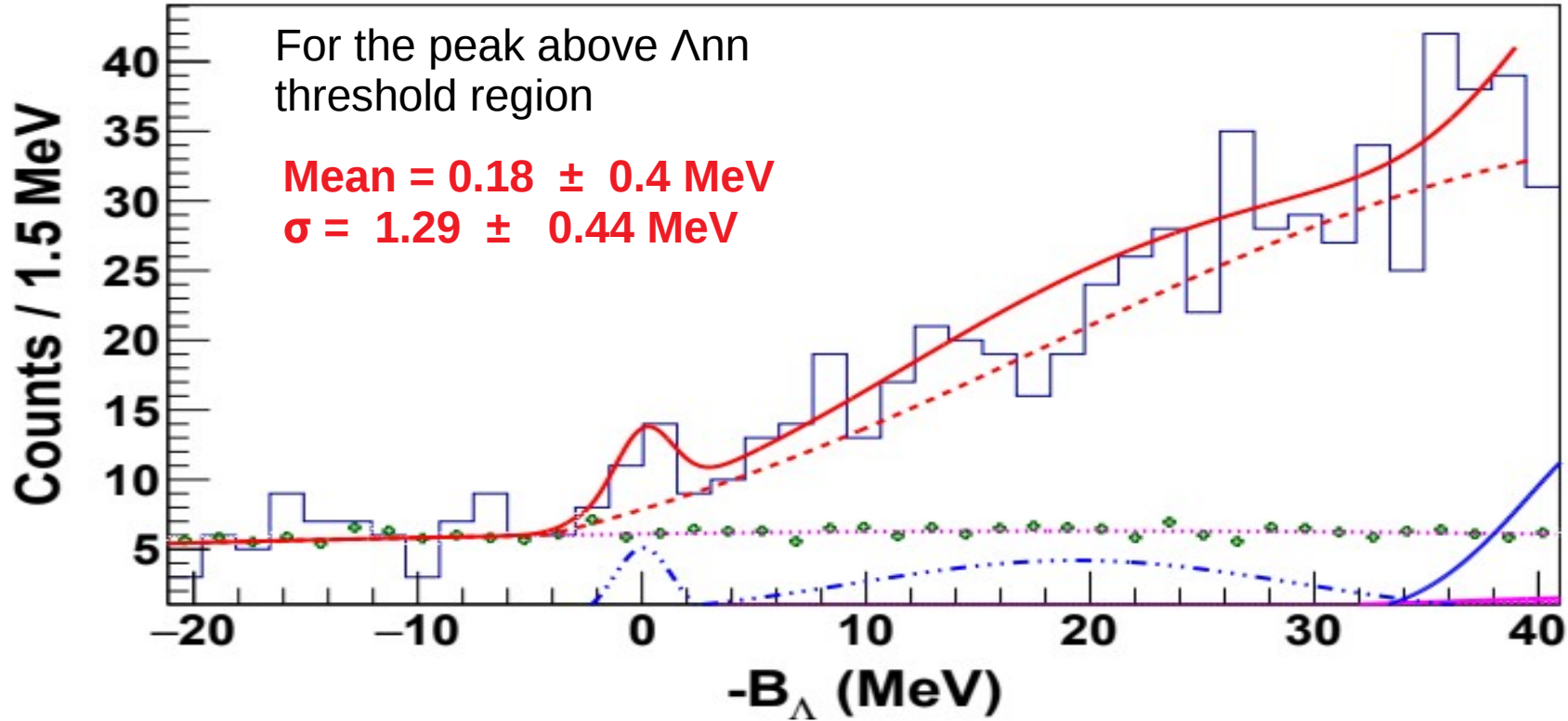
- The tritium data is analyzed by considering the H kinematics.
- The peak shows the presence of H in the tritium gas.

Ann Spectrum



- The Λ/Σ QF shape is obtained by fitting the SIM A simulated data.
- The free Λ curve is obtained by fitting the H data in T kinematics but considering Tritium as target and Λ as threshold mass.

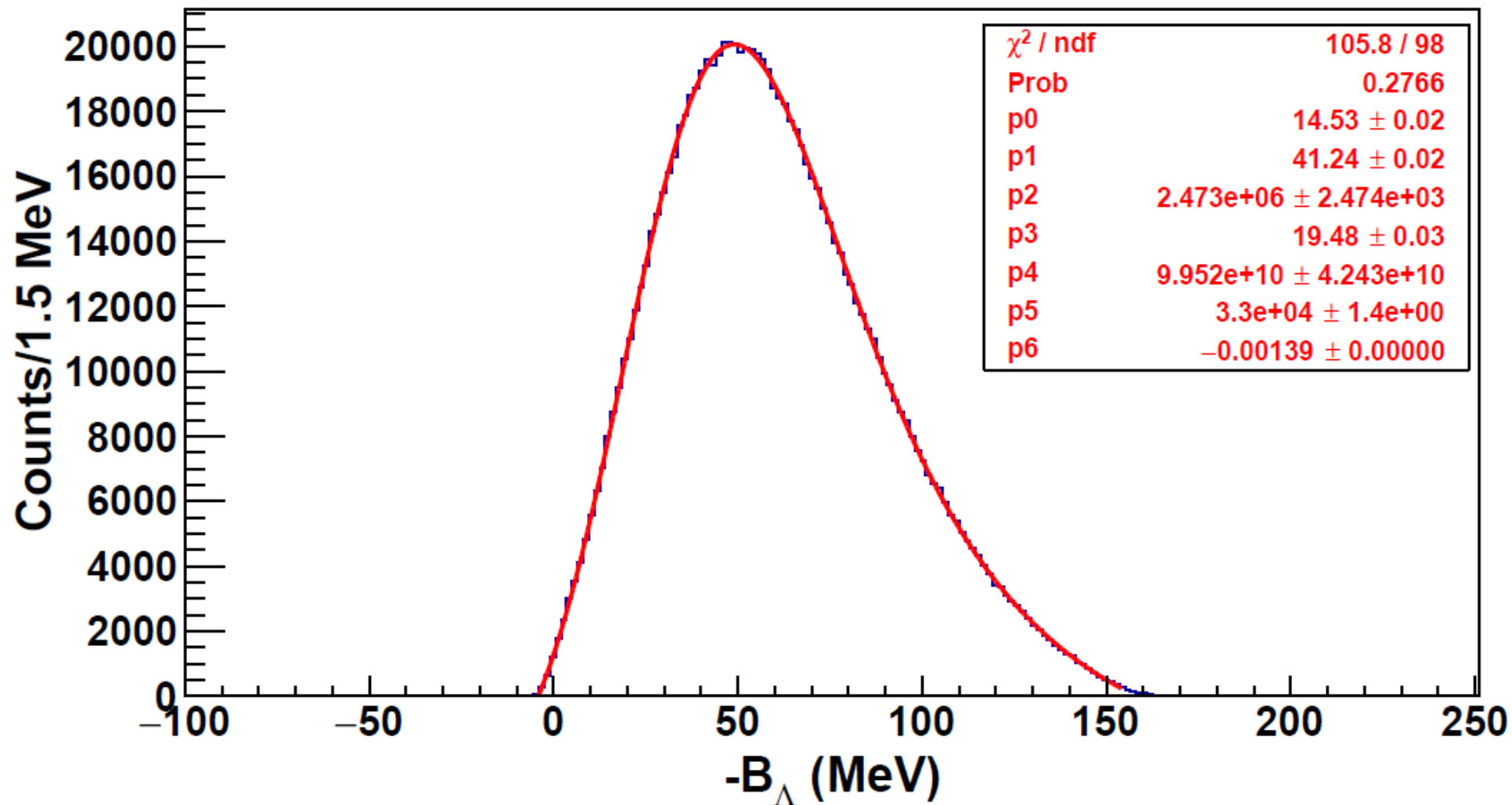
Closer view of Ann Spectrum

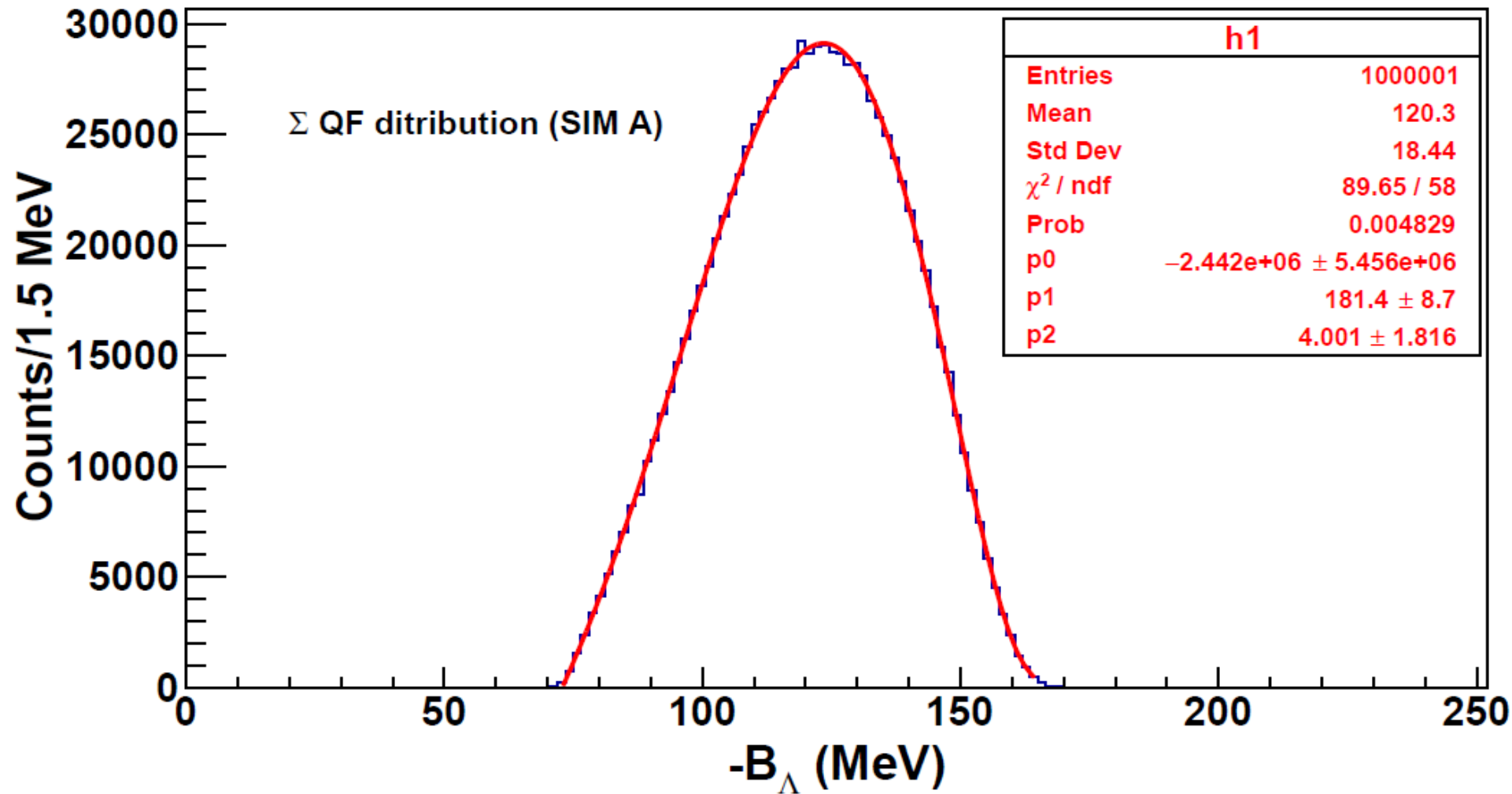


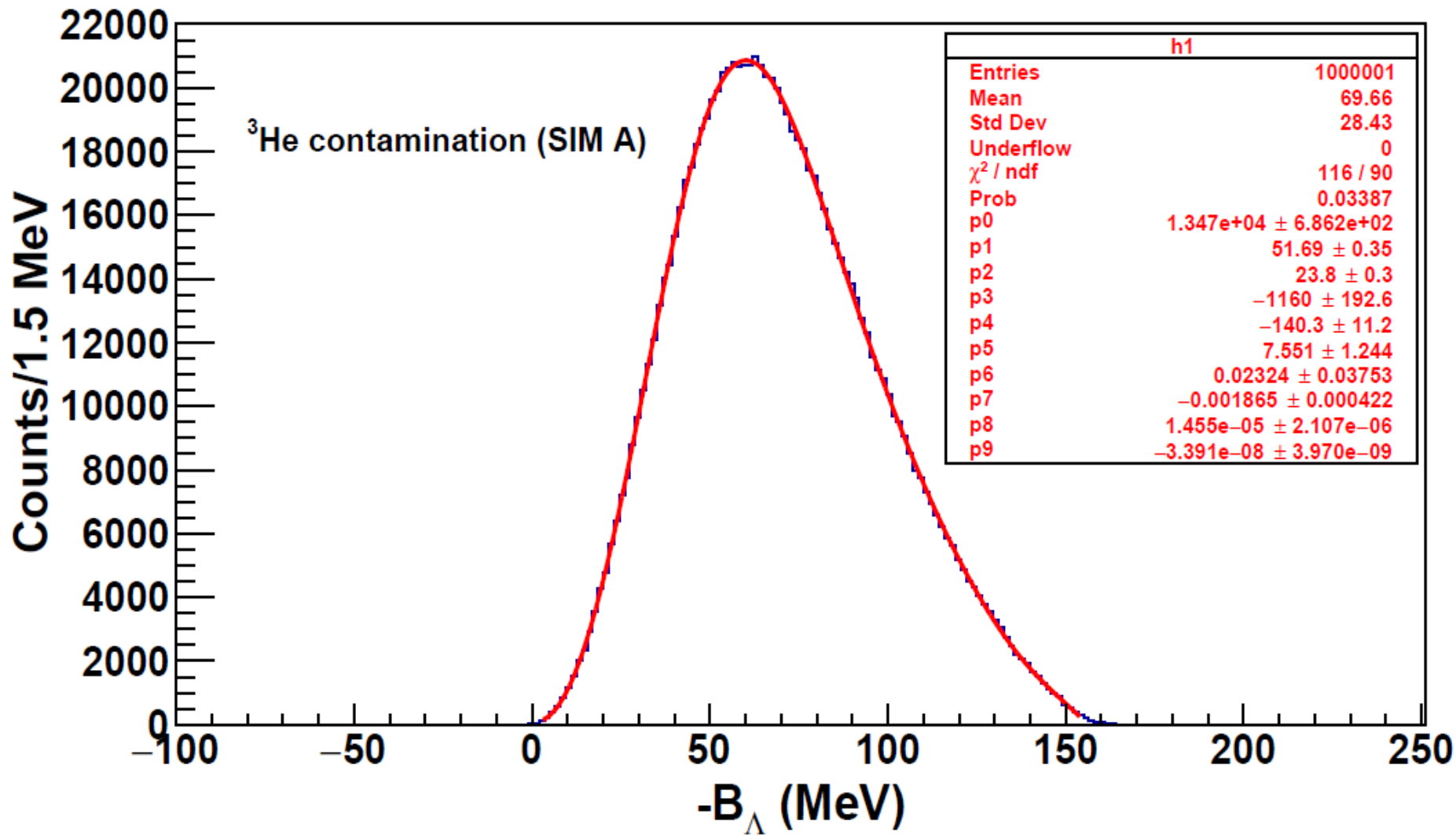
- To make the clear view of the Lnn spectrum, the spectrum is plotted from -20 to 40 MeV.
- The statistical significance of the peak is found about 1.9.

Backup Slide

Λ QF distribution (from SIMA)







H/T data analyzed by considering the tritium kinematics

