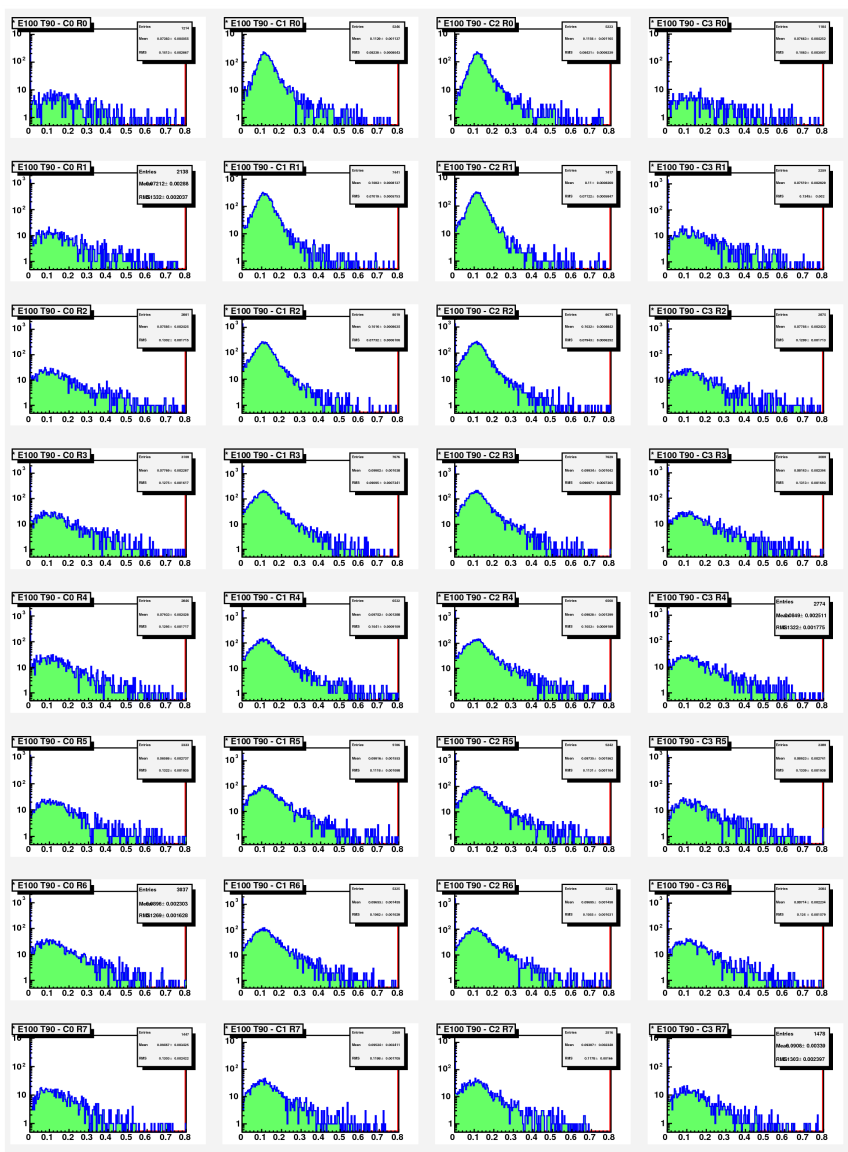


STATUS OF SAMPLING FRACTION STUDY

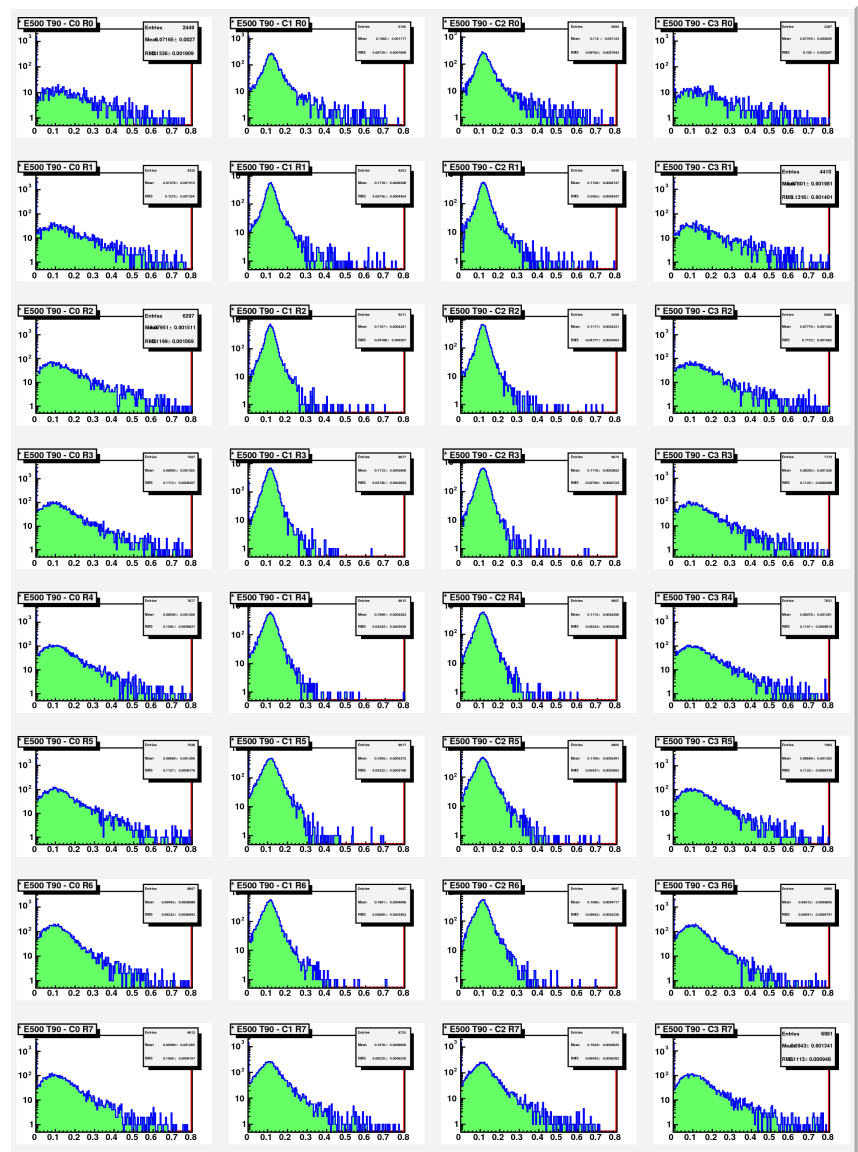
Andrei Semenov (UofR)

September 25, 2012

Sampling Fraction

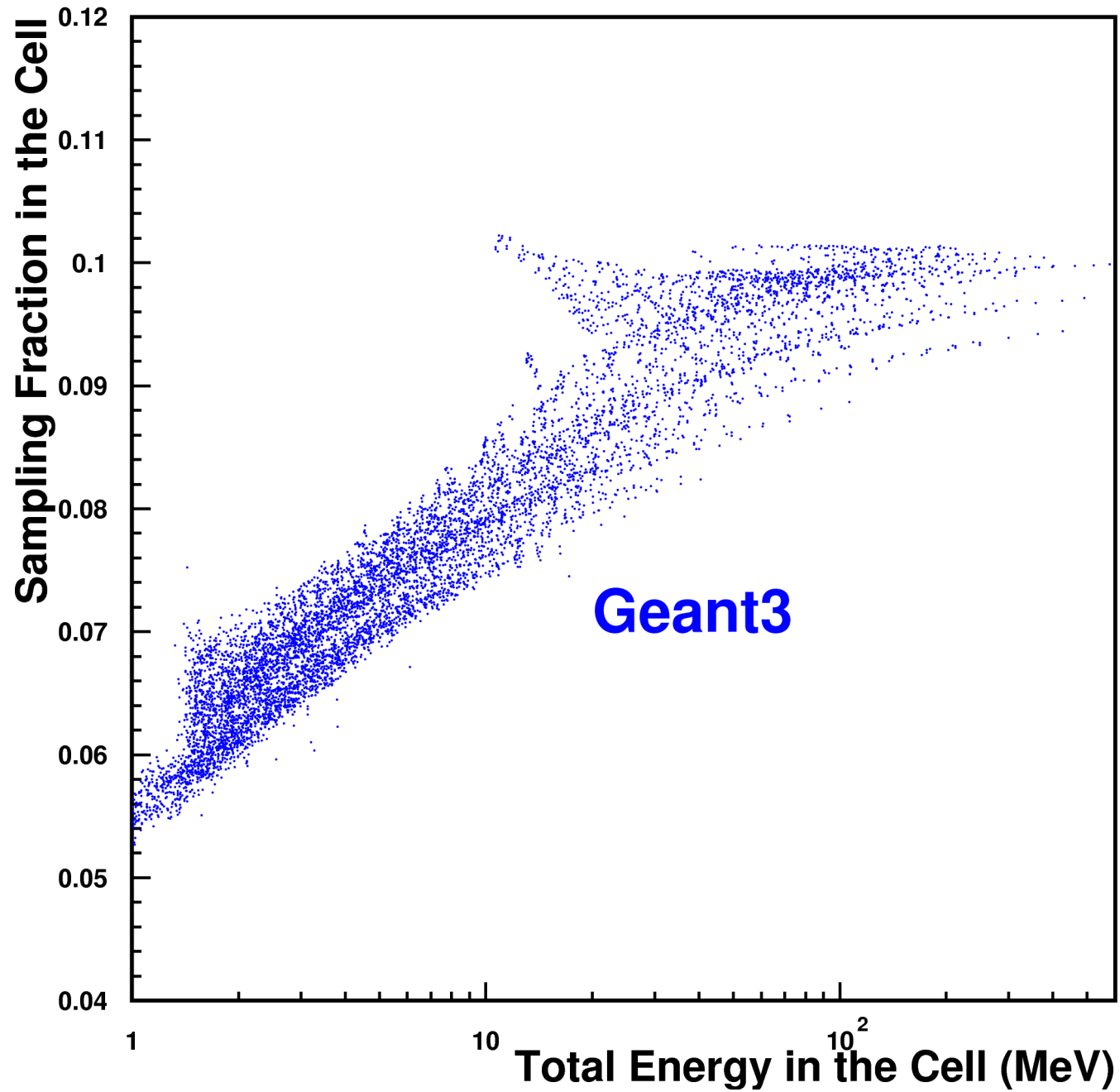


90 deg – 100 MeV

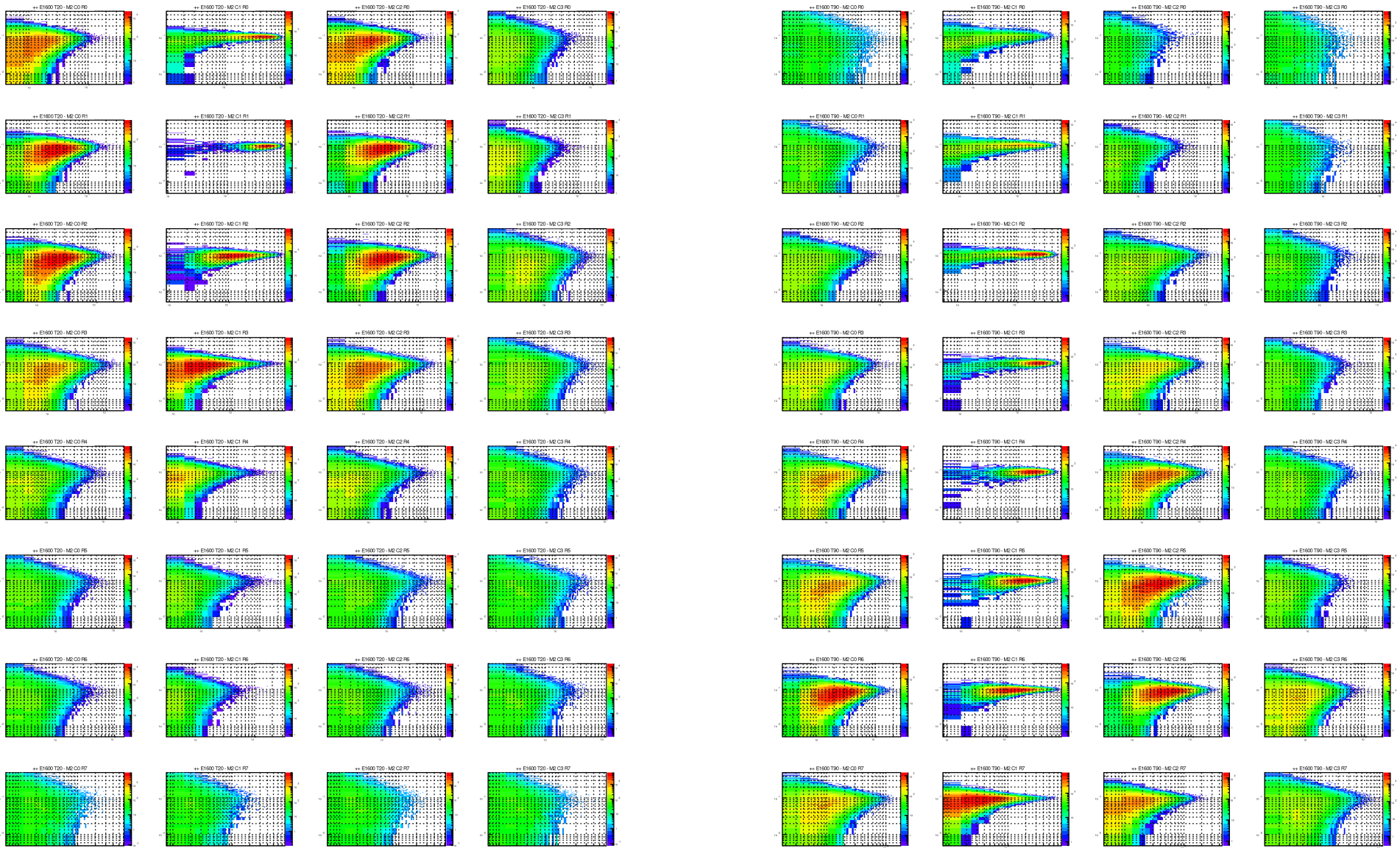


90 deg – 500 MeV

Sampling Fraction



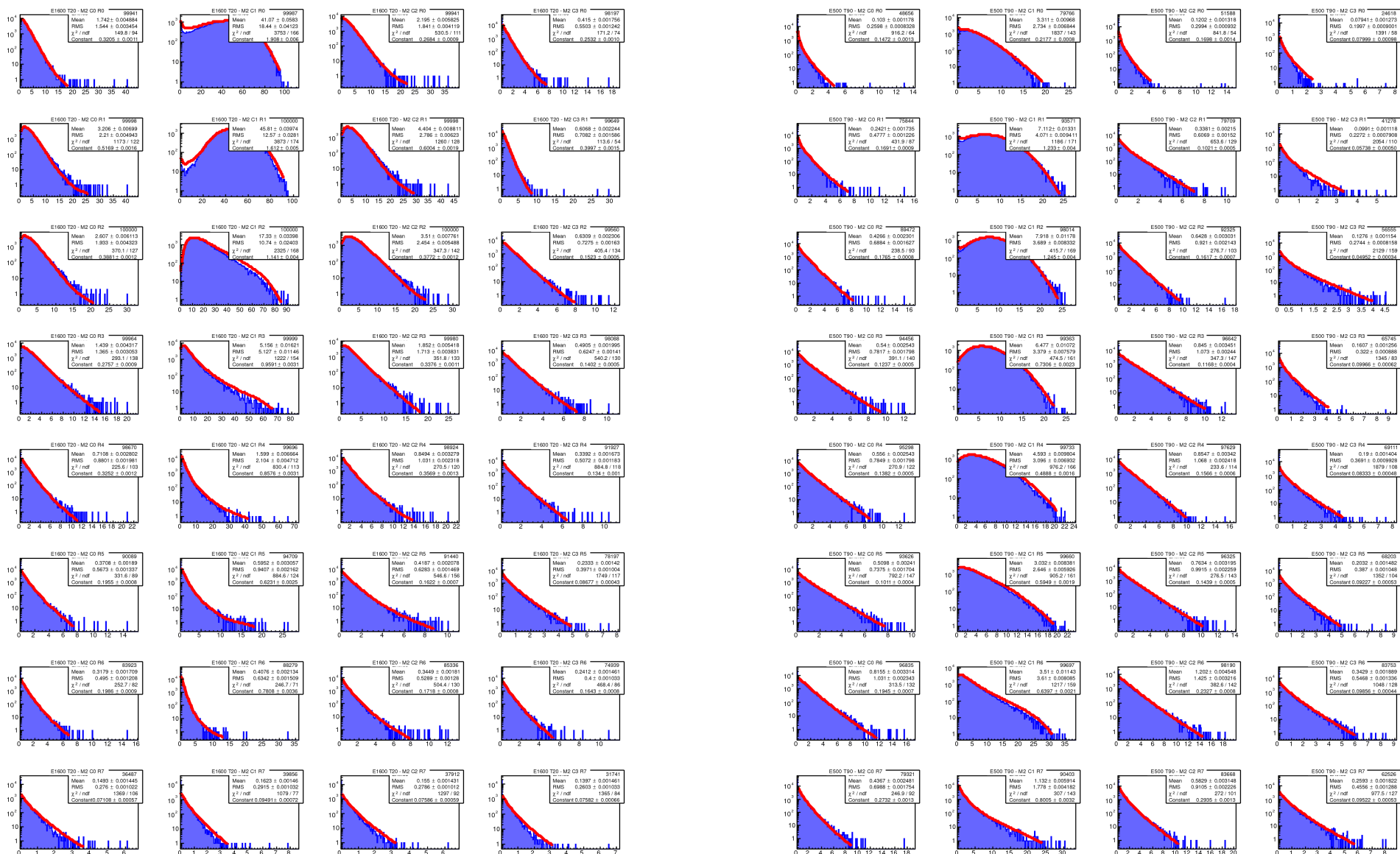
Sampling Fraction vs Energy in Fibers



20 deg – 1600 MeV

90 deg – 1600 MeV

Resolution Fit: Statistical Term Only

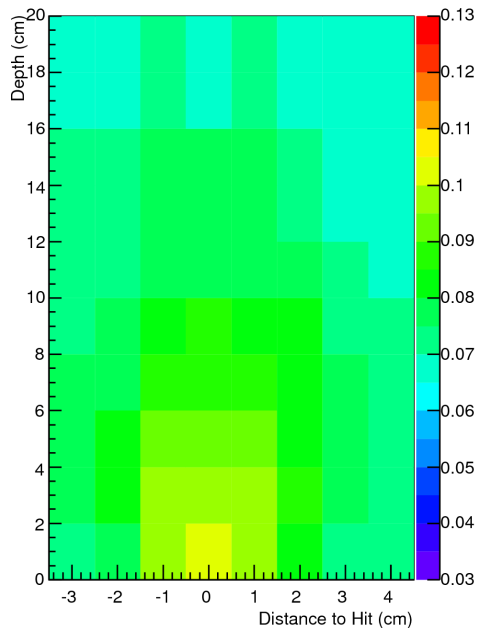


20 deg - 1600 MeV

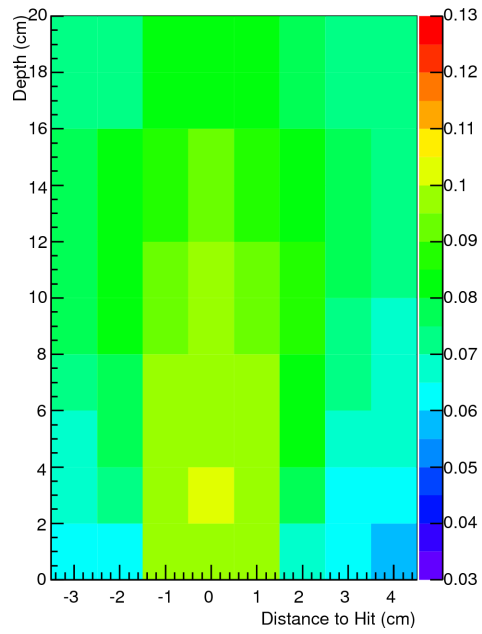
90 deg - 500 MeV

Resolution Fit: Results

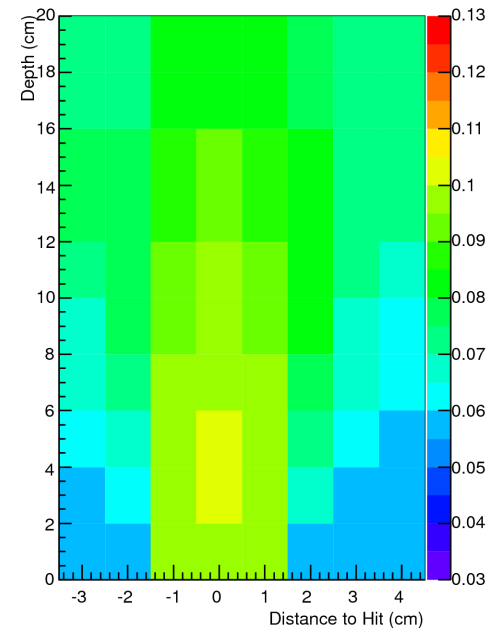
Sampl Fraction: E1600 T20



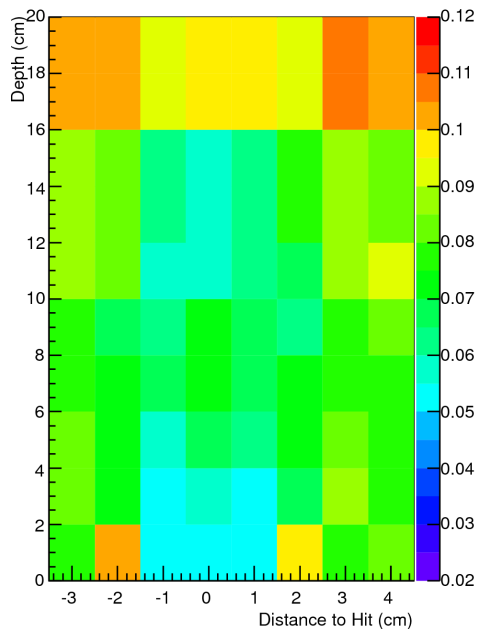
Sampl Fraction: E900 T50



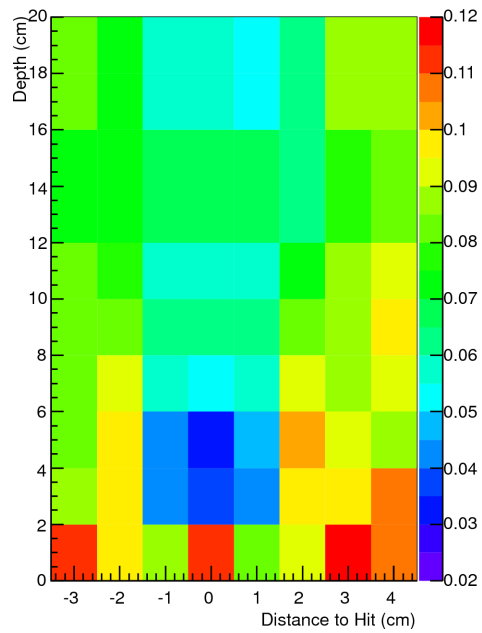
Sampl Fraction: E500 T90



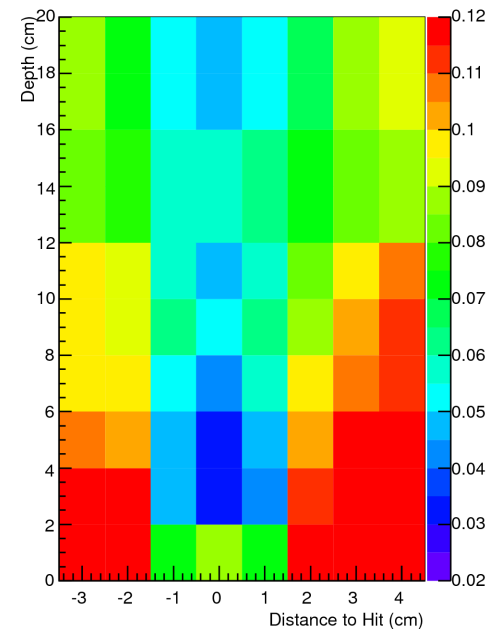
Stat Term: E1600 T20



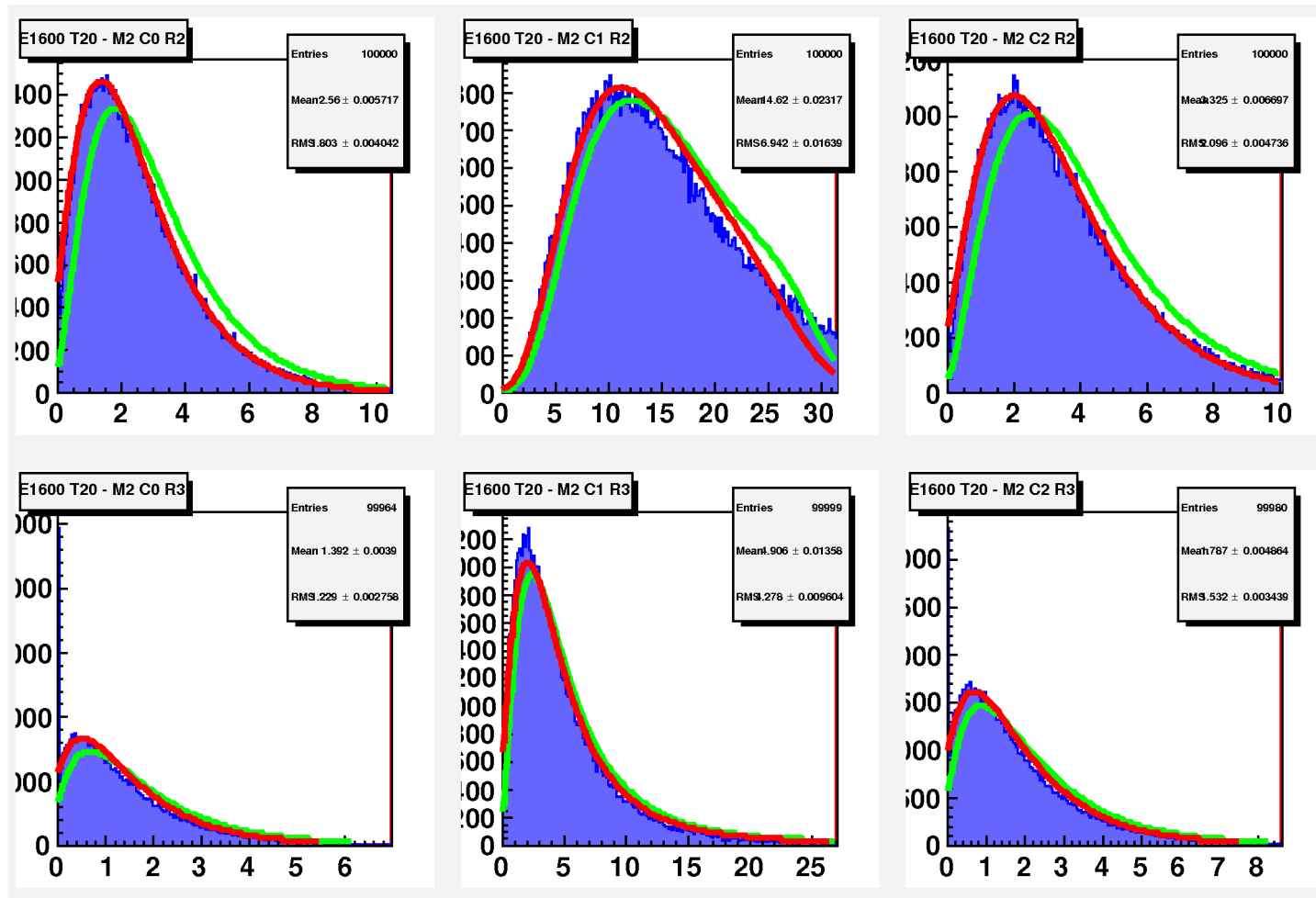
Stat Term: E900 T50



Stat Term: E500 T90



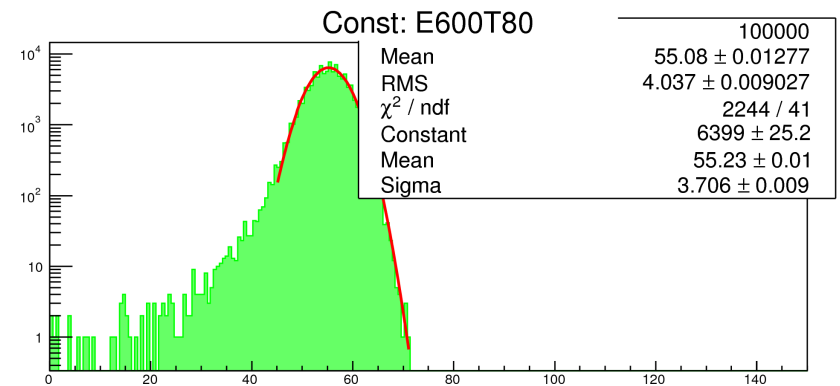
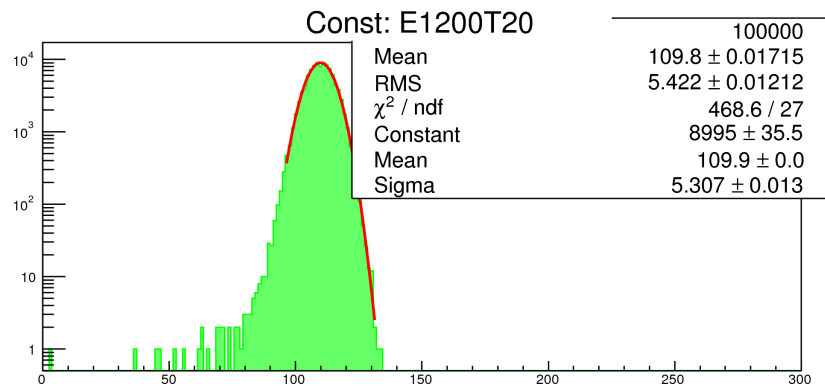
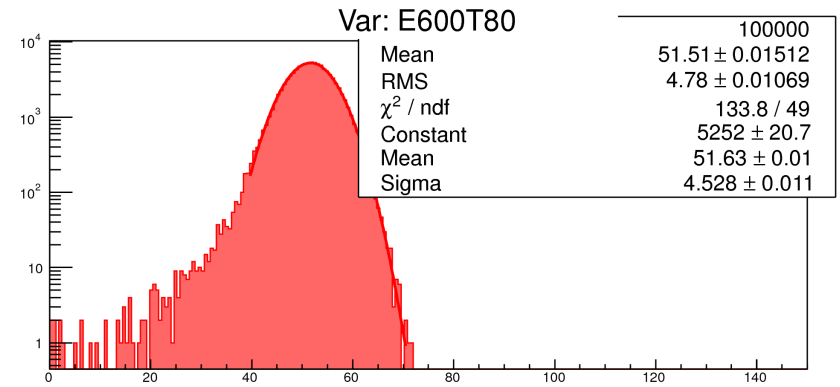
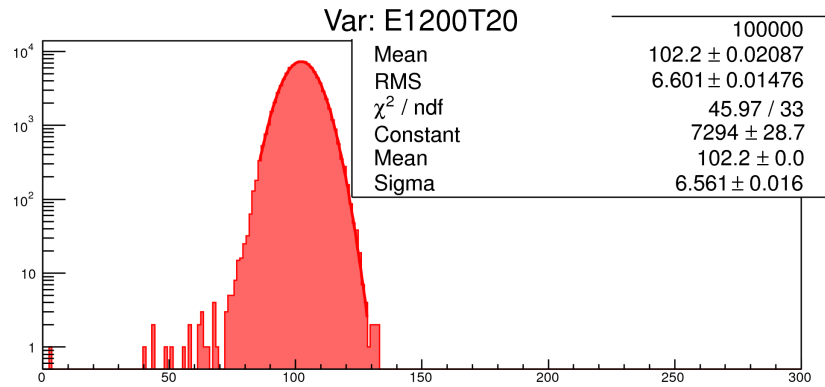
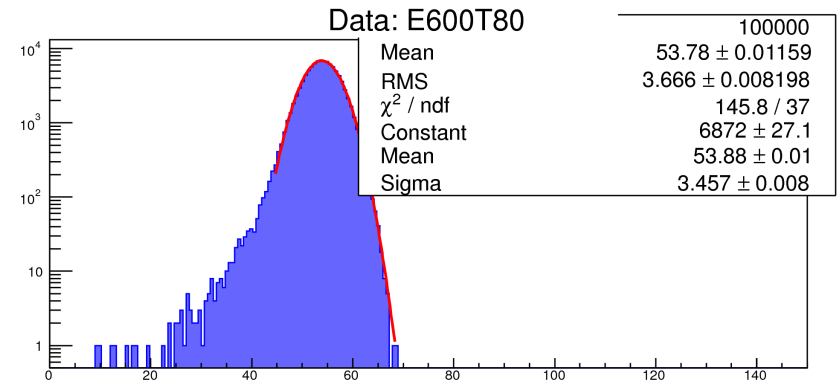
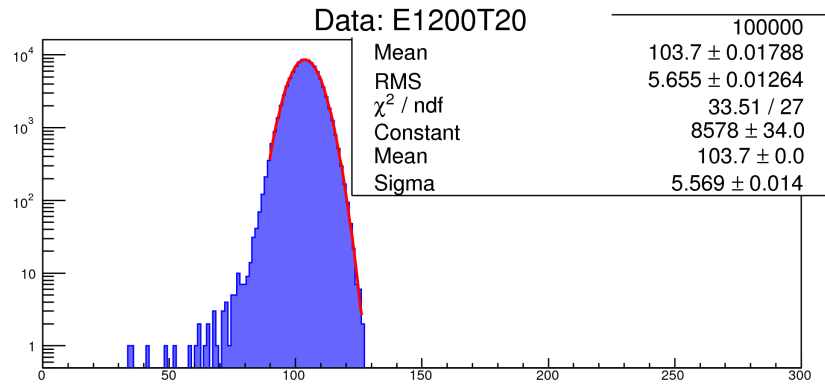
Fit Results in Cells



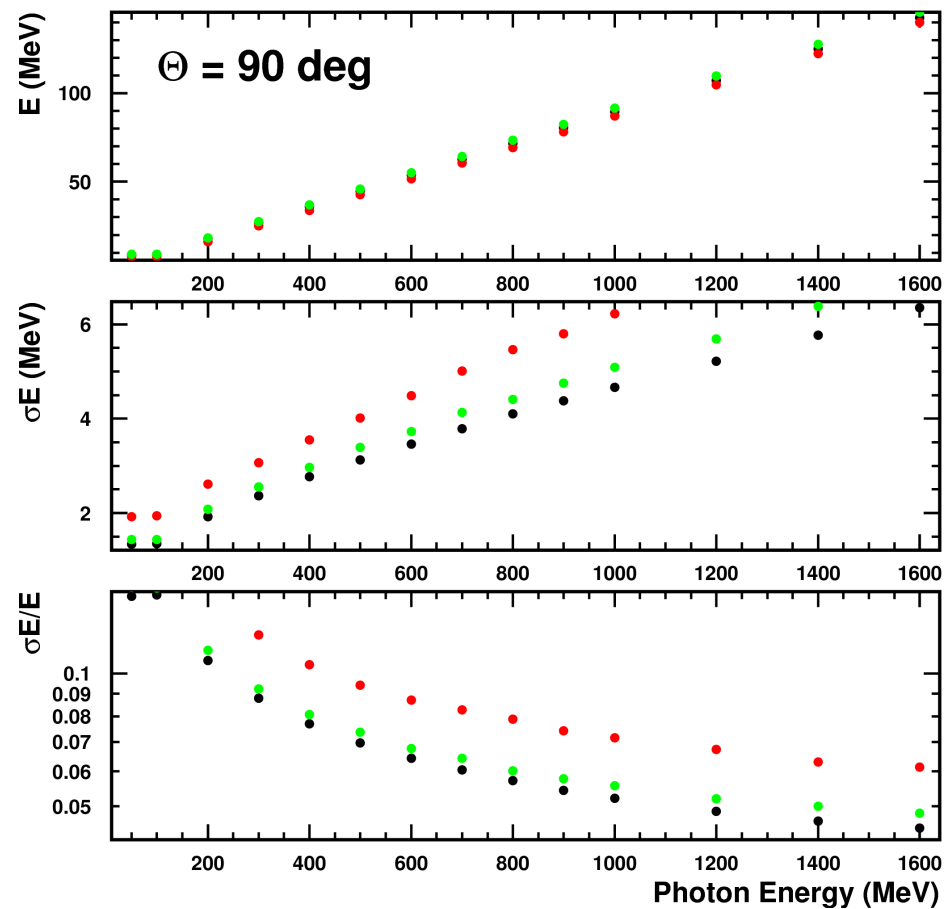
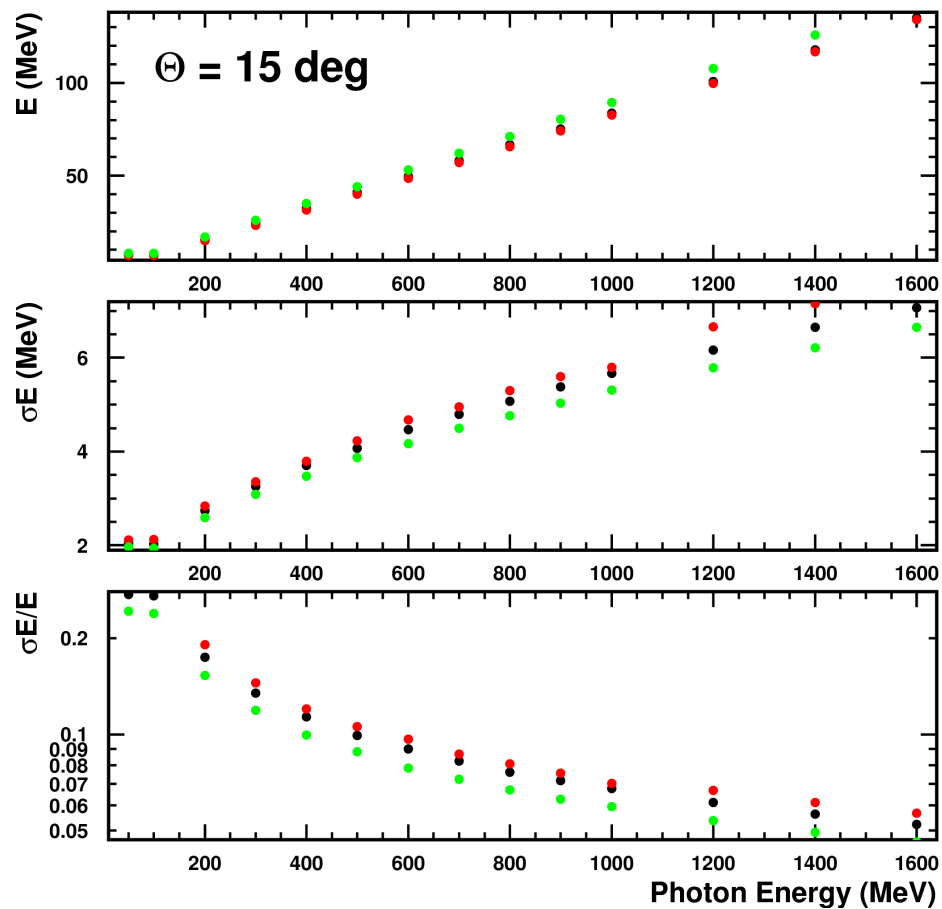
Red: Fit Results

Green: Fixed Resolution & Sampling Fraction

Fit Results in Whole Module

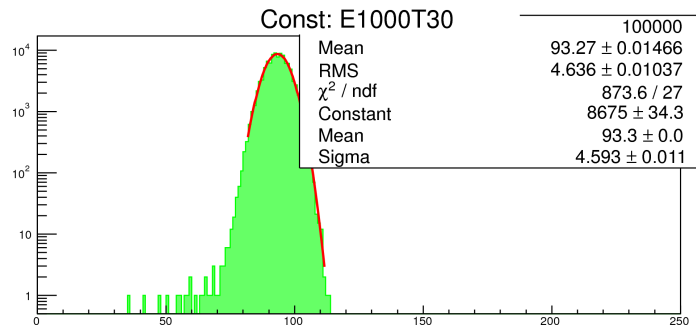
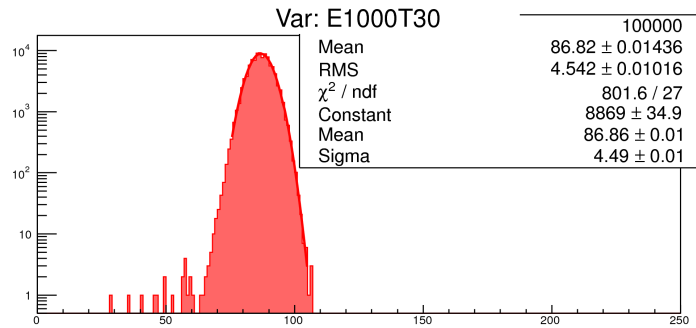
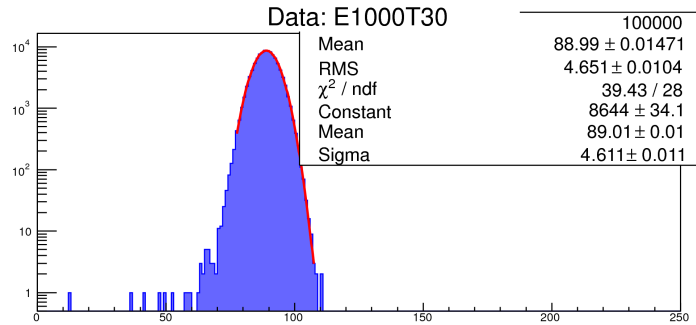


Fit Results in Whole Module

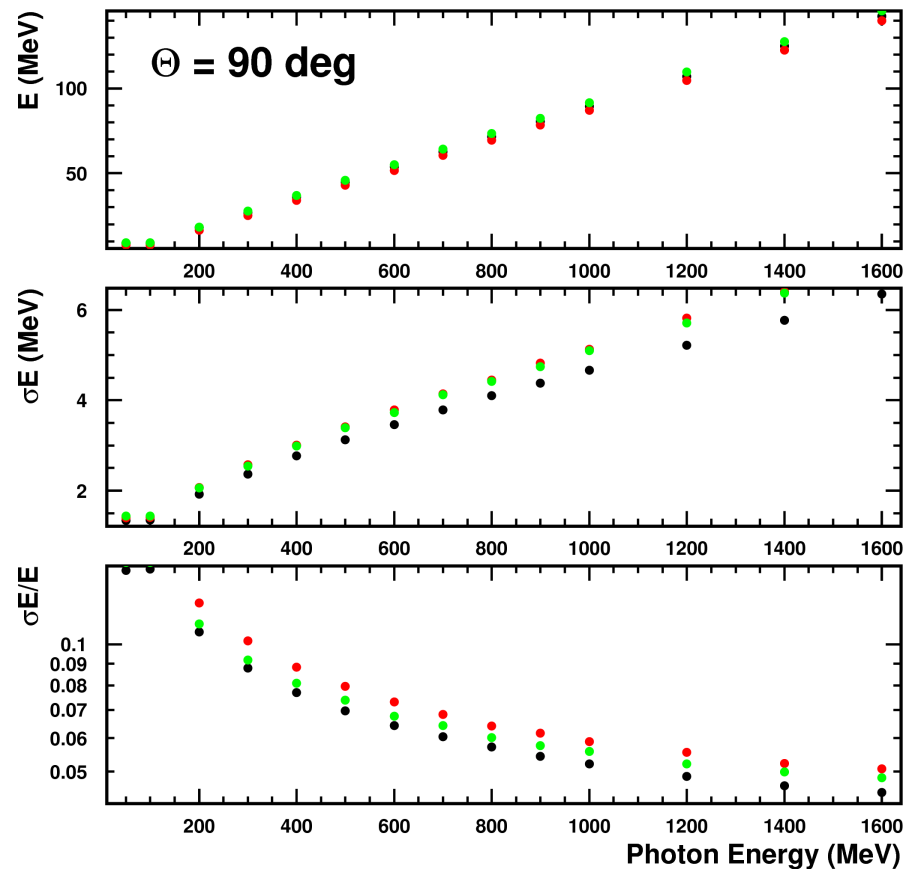
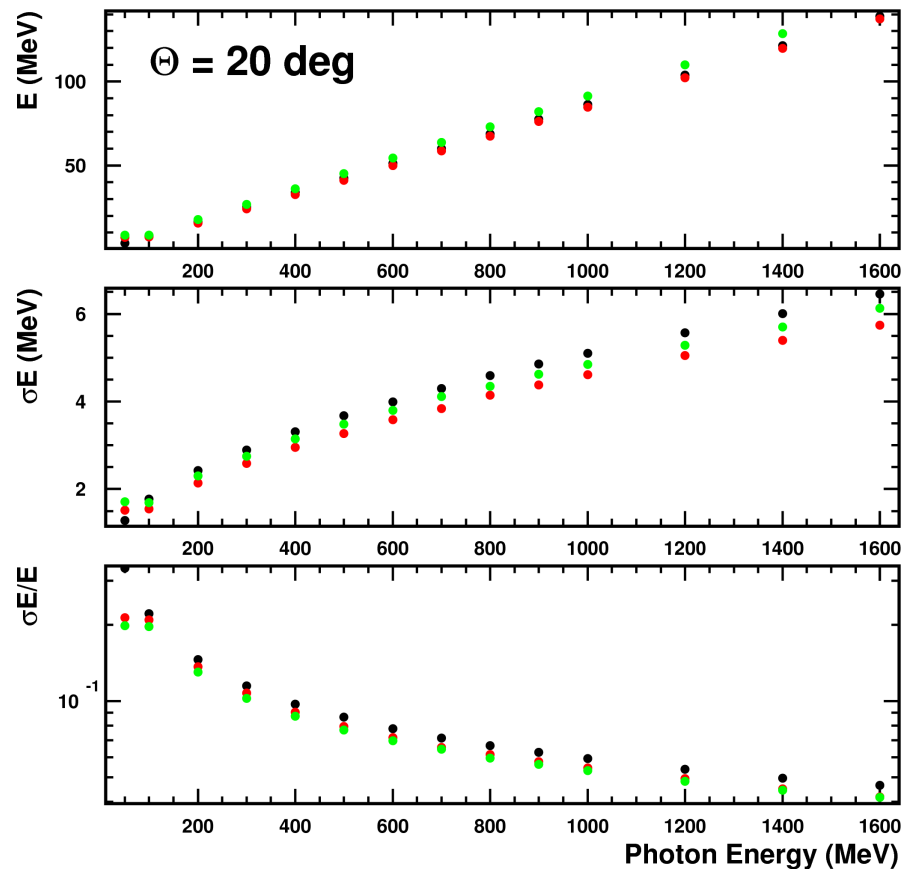


Fast Fix

$$\text{Stat_Coeff} = 0.042 / \text{SQRT}(\text{SAMPL_Fract} / 0.10)$$



Fast Fix



Fast Fix

