

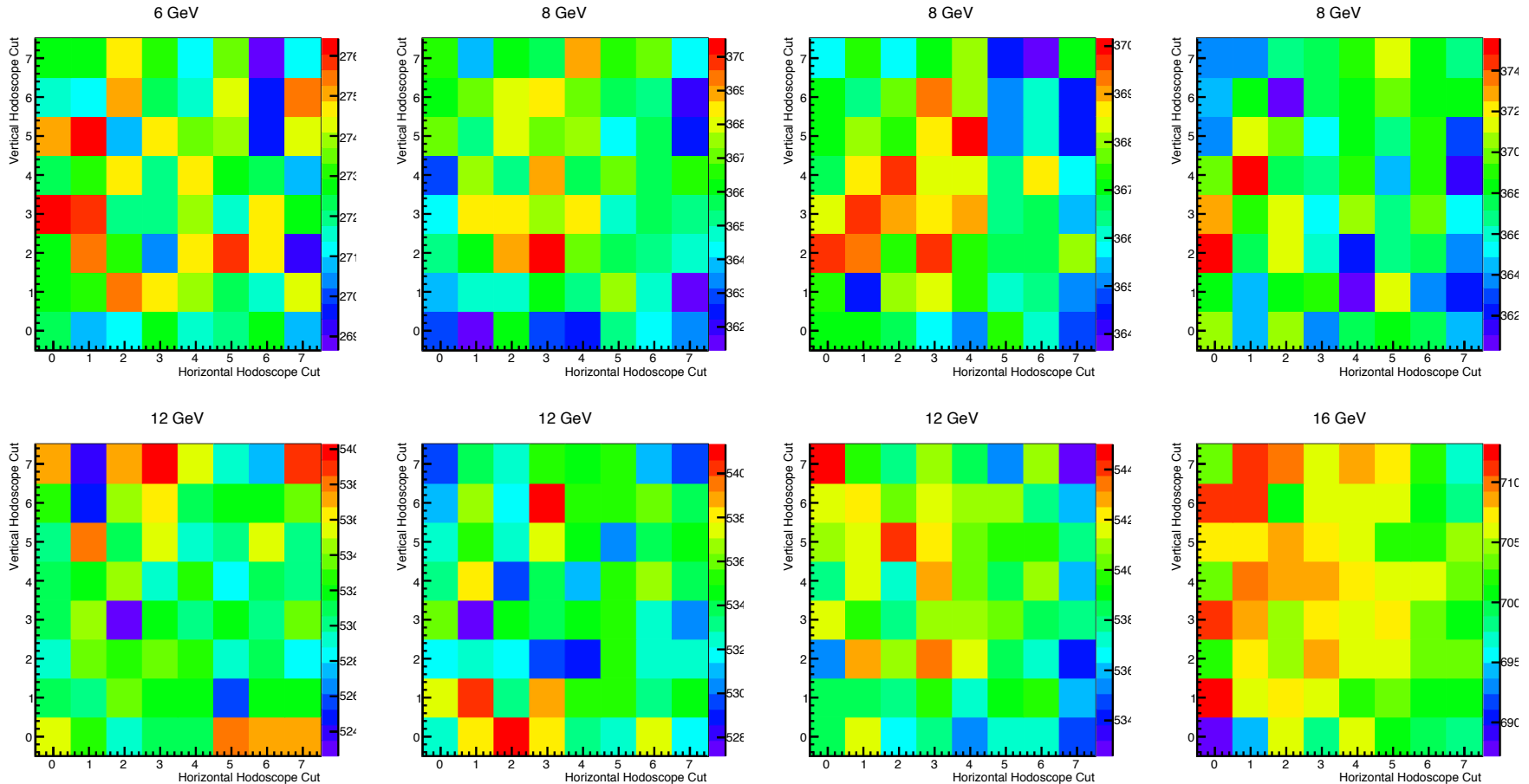
# PbGL Analysis

# PbGL Runs

Energy	1100V Runs	1200V Runs
1 GeV	n/a	2299
2 GeV	n/a	2270
3 GeV	n/a	2258, 2259
4 GeV	n/a	2251, 2252
6 GeV	2241	2239, 2240
8 GeV	2237, 2286, 2287	2238
12 GeV	2271, 2272, 2273	n/a
16 GeV	2285	n/a

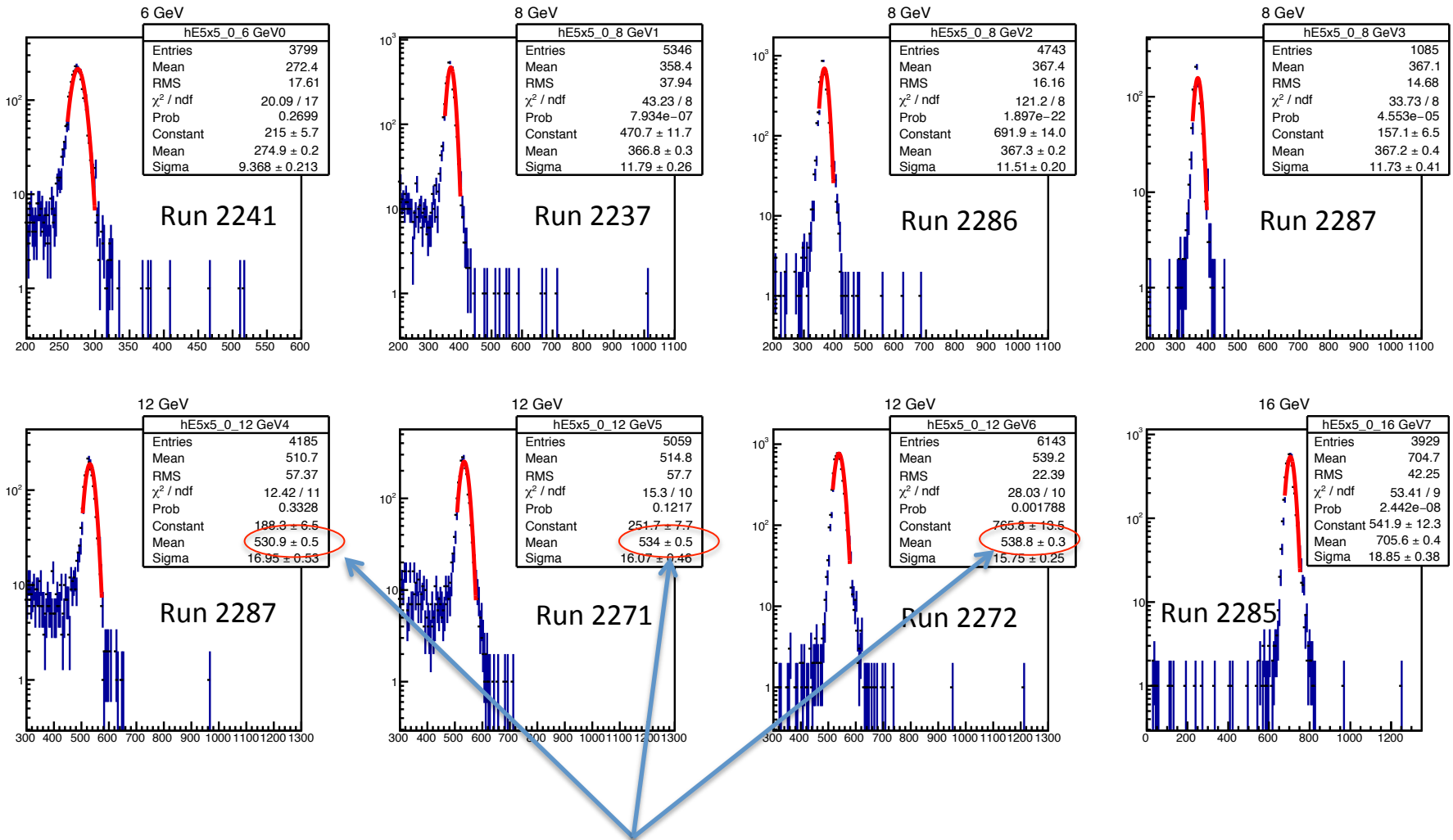
- Run through same macro that produces resolution plots for calorimeter runs
- Nominal Cherenkov and veto cuts:
  - Cherenkov:  $\text{abs}(C2\_inner\_t + C2\_outer\_t) > 100$
  - Veto:  $\text{Veto1\_t} < 15 \ || \ \text{Veto2\_t} < 15 \ || \ \text{Veto3\_t} < 15 \ || \ \text{Veto4\_t} < 15$

# Mean Energy by Hodoscope cuts (1100V)



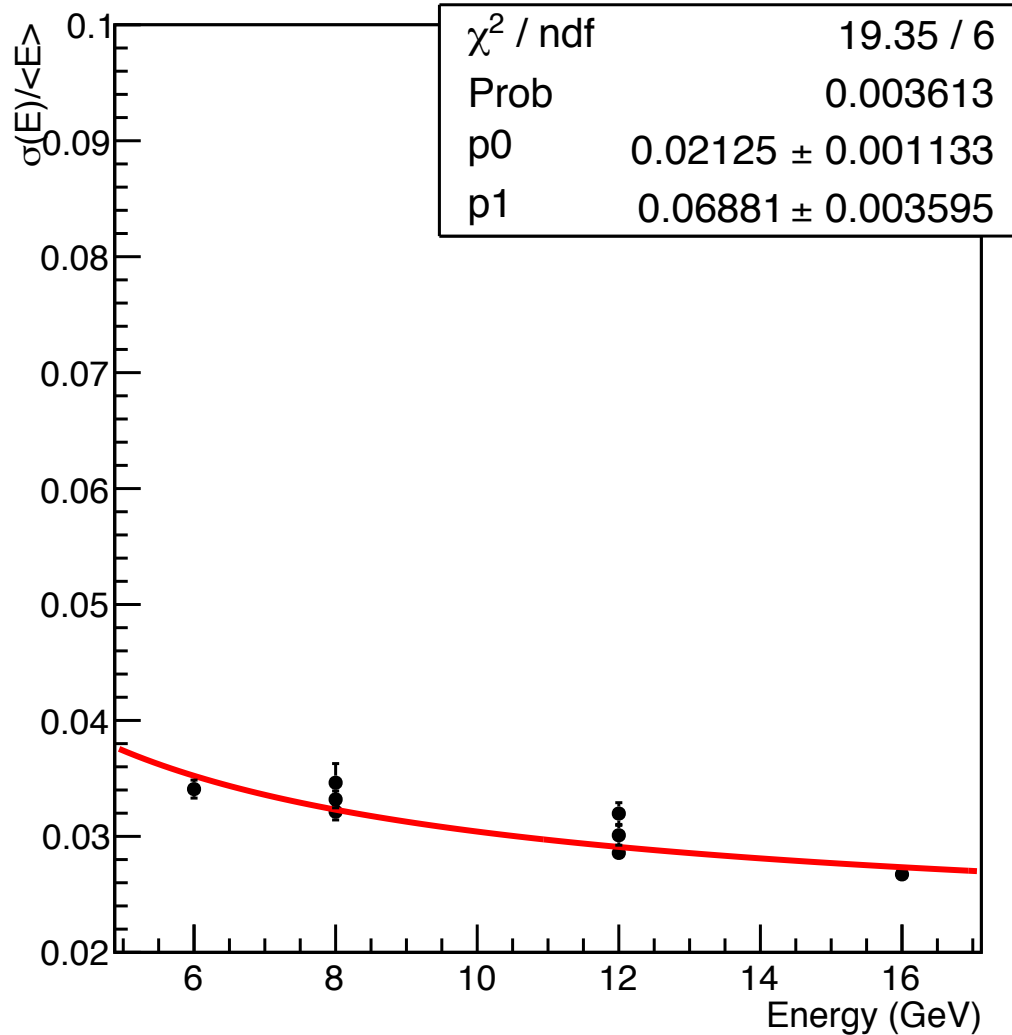
Seems random so cut on all hodoscope fingers (at least one vertical and one horizontal finger has a value >30)

# 1100V PbGL Energy Distributions

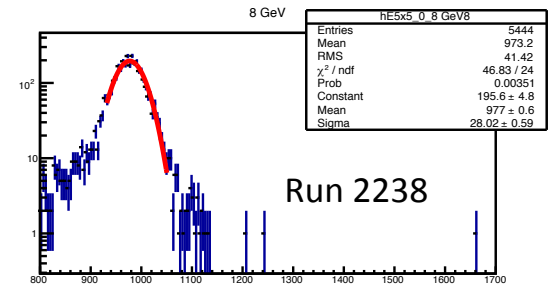
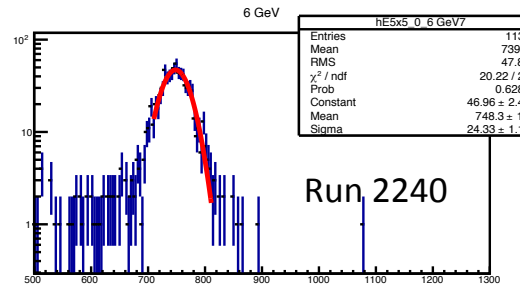
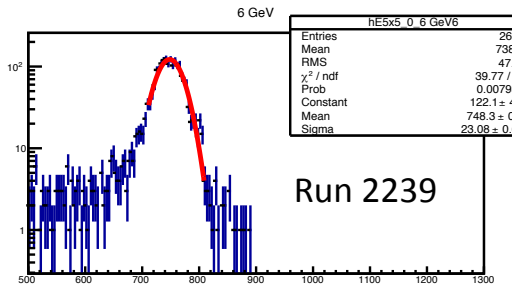
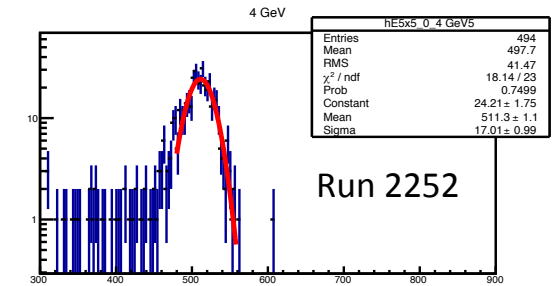
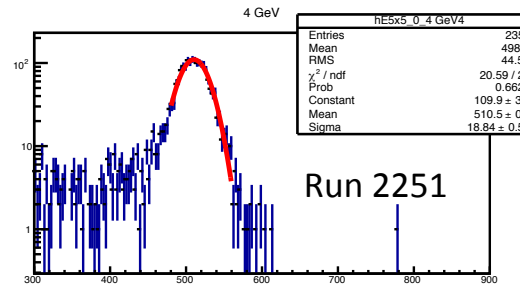
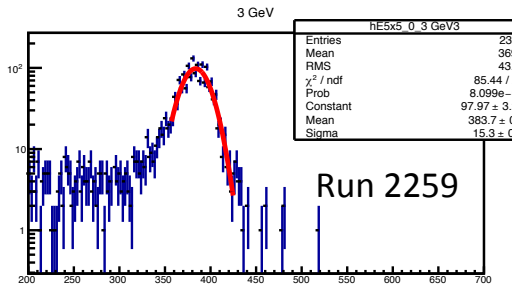
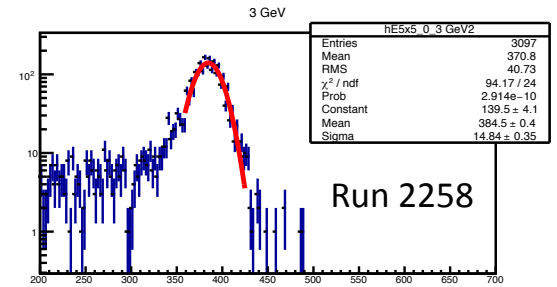
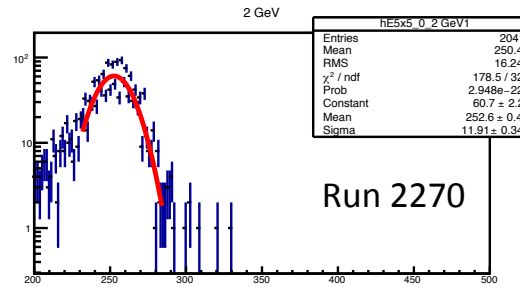
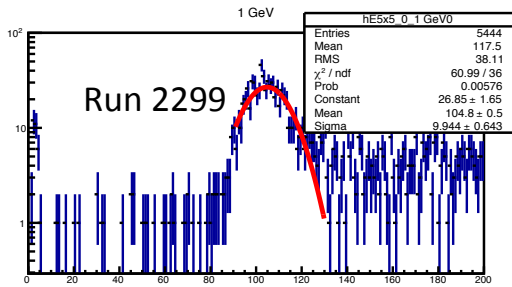


Most runs at same energy have very similar  $\langle E \rangle$ , but 12GeV runs have a spread in  $\langle E \rangle$

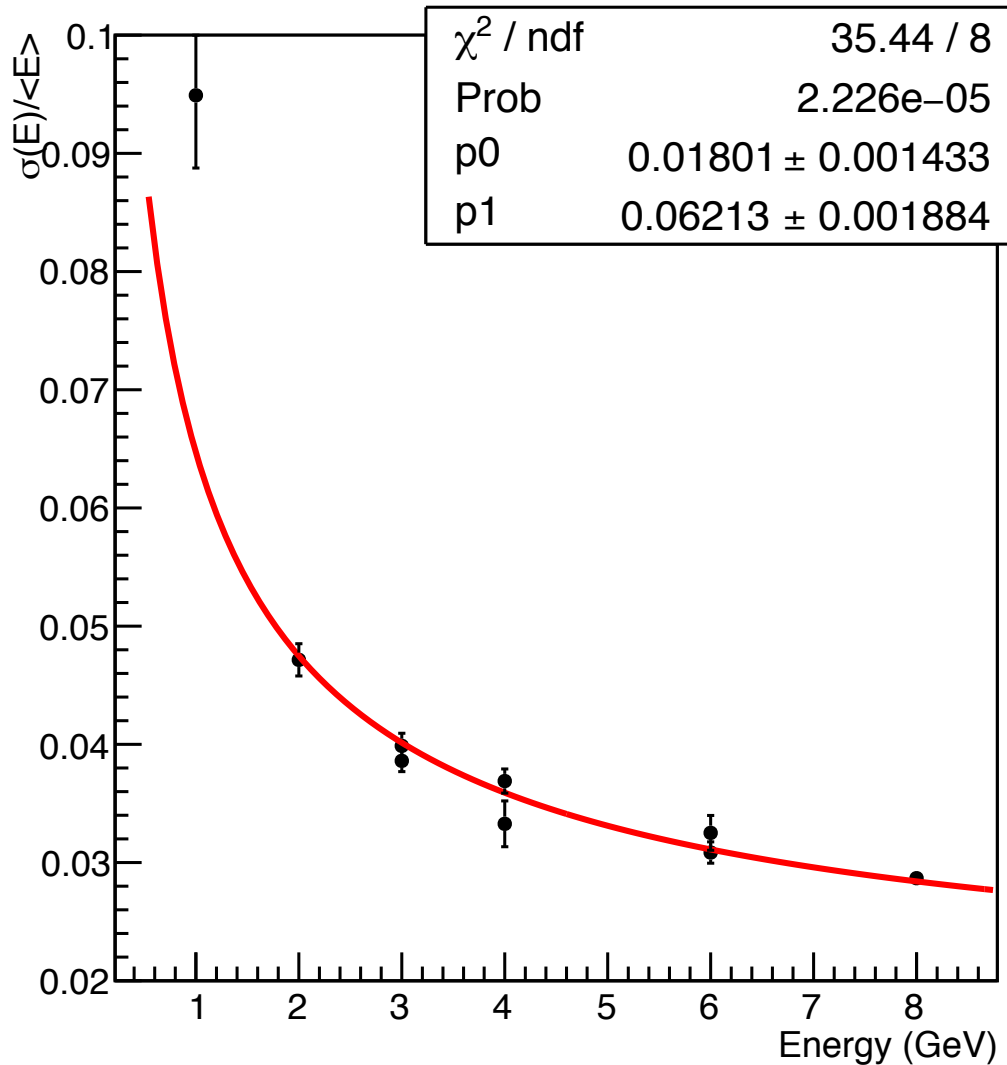
# 1100V Resolution



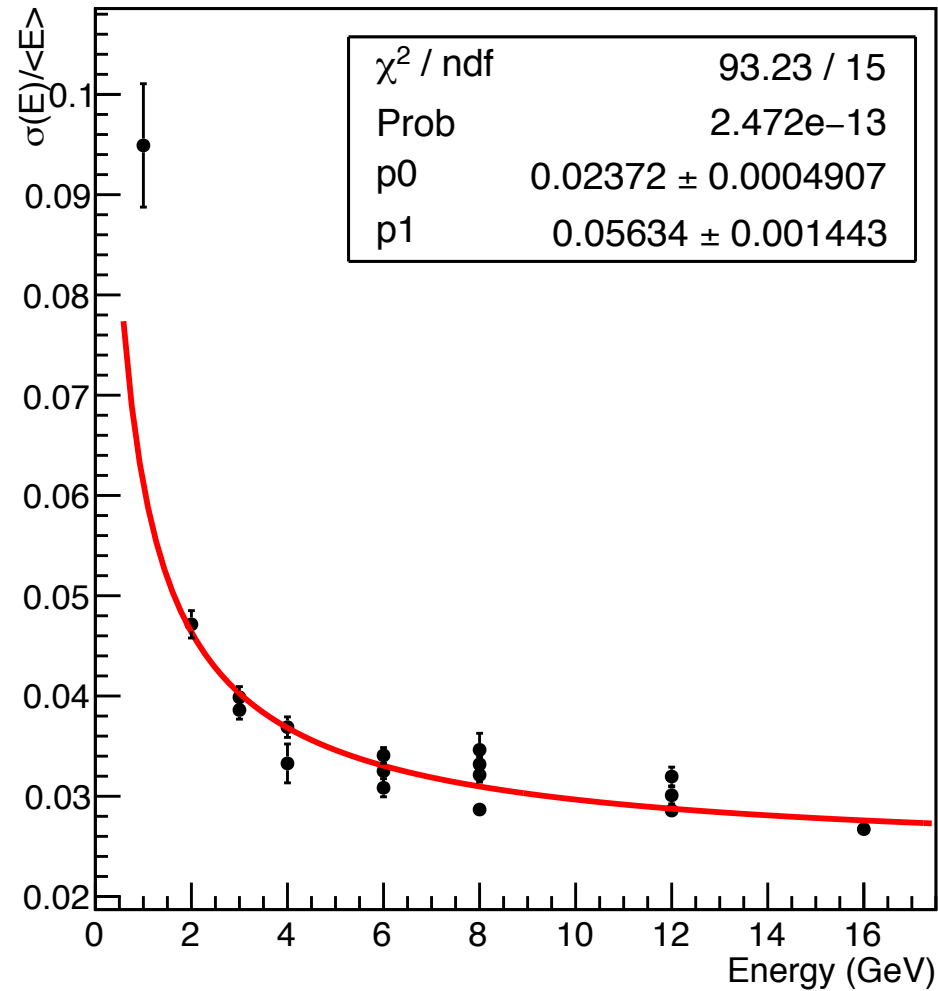
# 1200V PbGL Energy Distributions



# 1200V Resolution



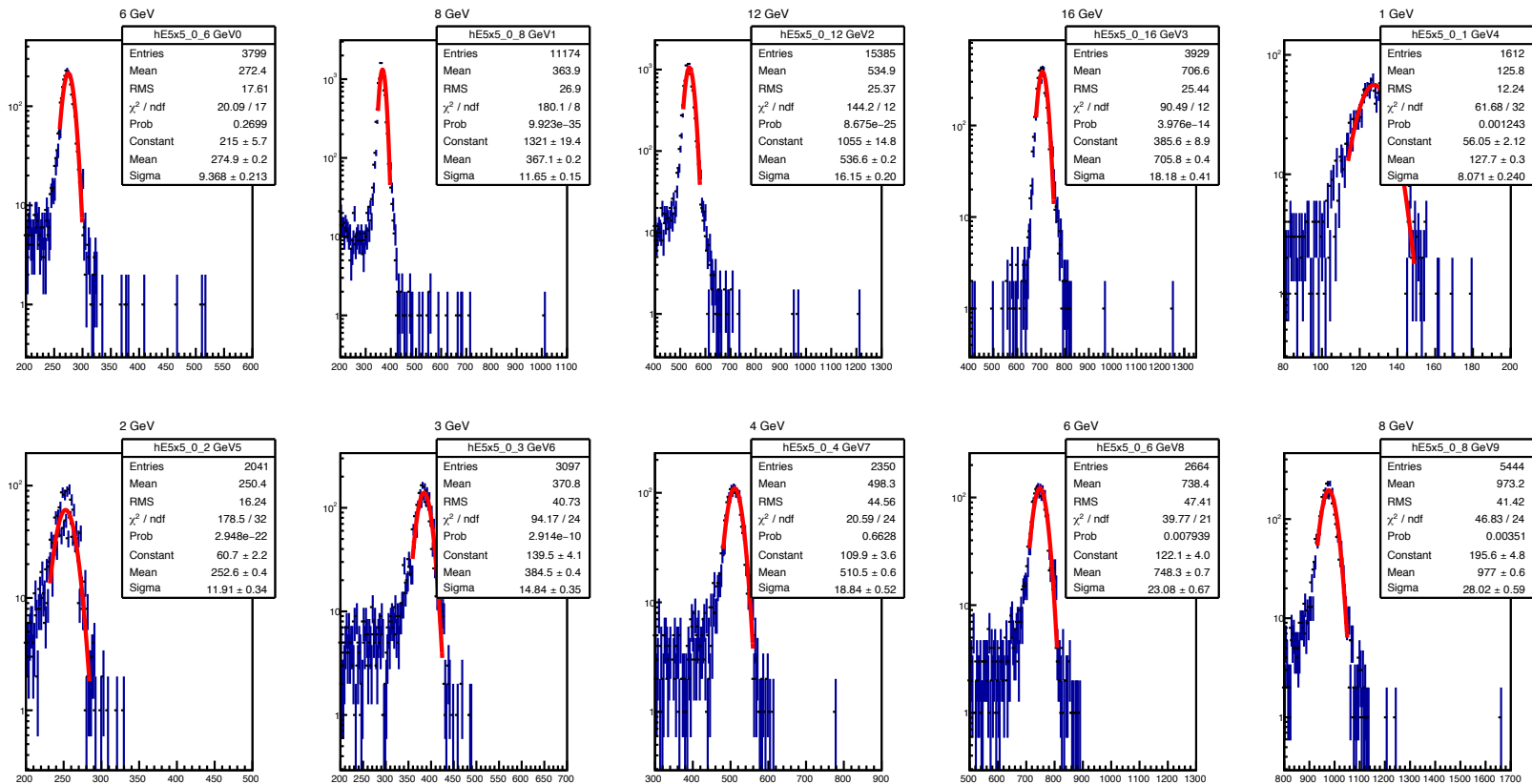
# 1100V and 1200V Combined Resolution





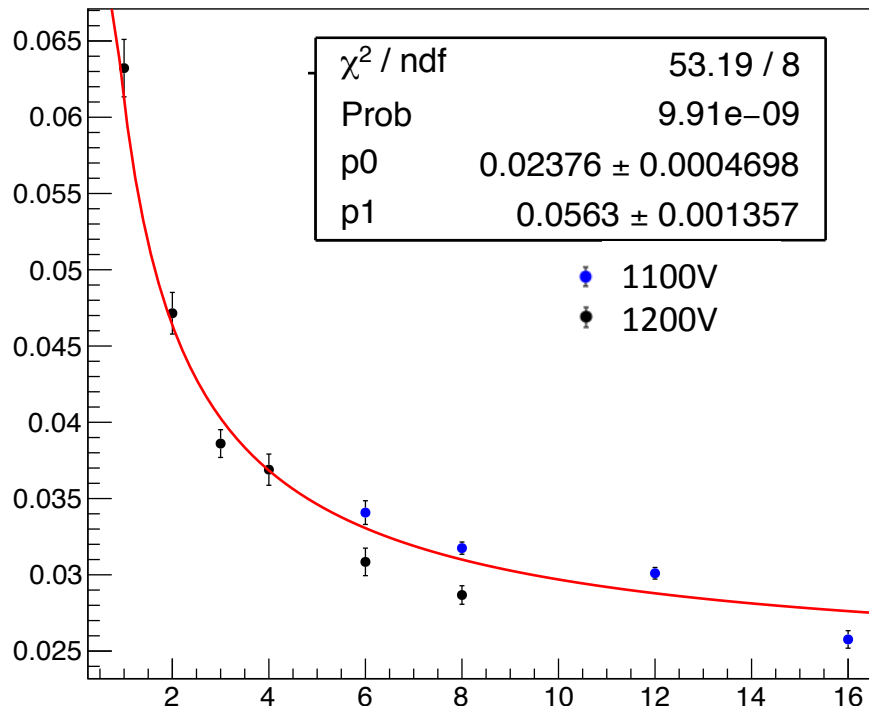
# Combined Runs

- All runs for a specific energy are combined into one point (6 and 8GeV have one plot for 1100V and one for 1200V)



# Combined Runs

- All runs for a specific energy are combined into one point



# 6 and 8 GeV Energy Distributions

