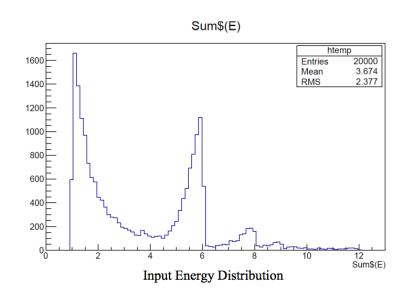
Classification with CPPsim + BDT

David L. JLab

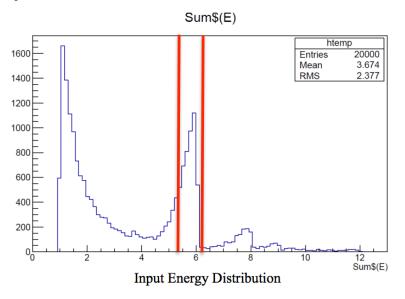
May 19, 2017

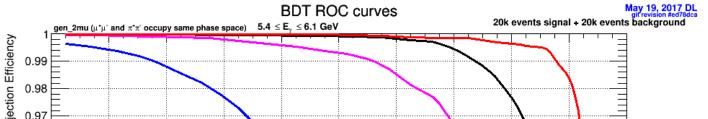
Simulation Parameters

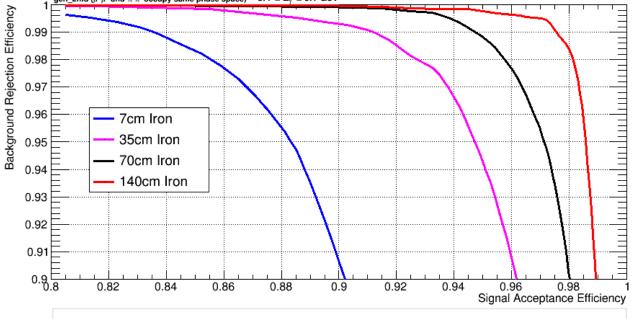


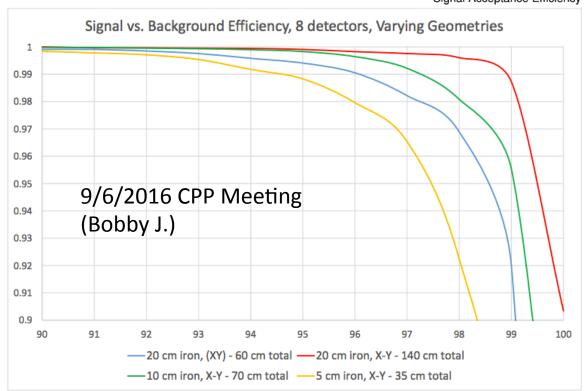
Simulation Parameters

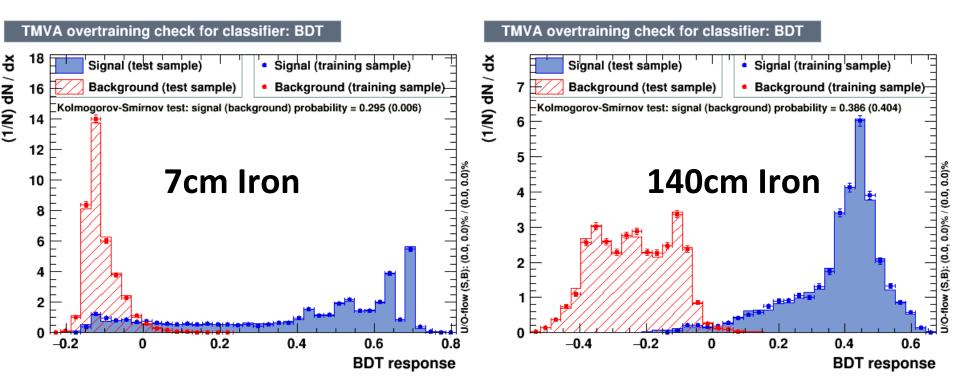
- gen_2mu used to generate $\mu + \mu -$ and $\pi + \pi -$ events
 - 20k events of each type
 - Strong overlap in phase space of signal and background sets
 - $-1^{\circ} < \theta < 14^{\circ}$ for both particles
 - $-5.4 < E_{\gamma} < 6.1 \text{ GeV}$

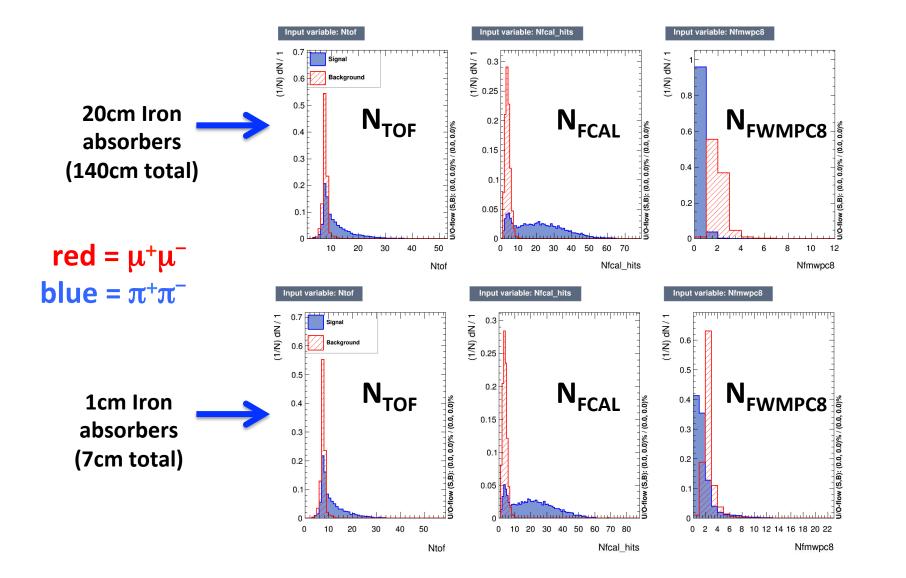


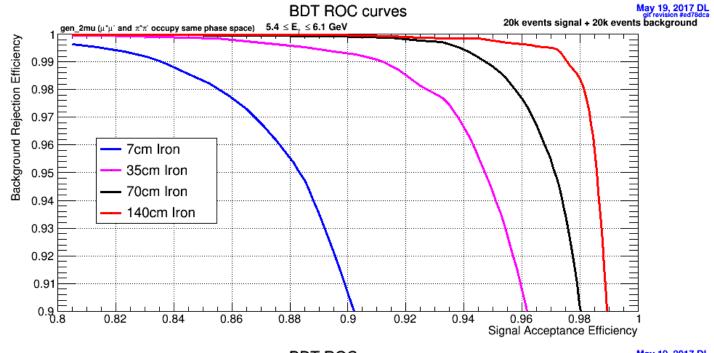


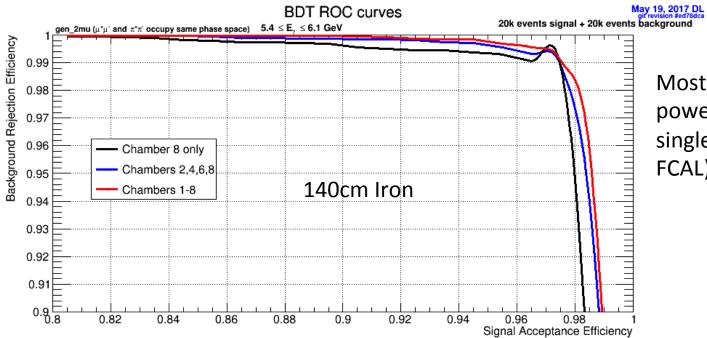












Most of discriminating power comes from single chamber (and FCAL)

