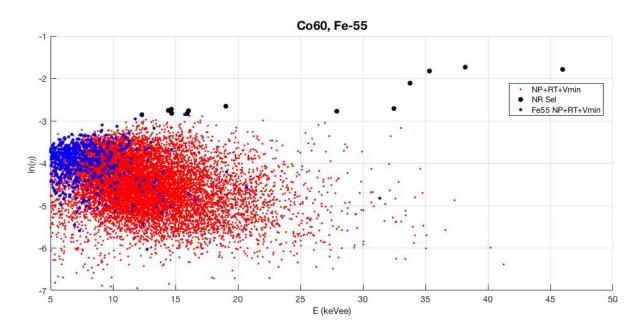
UNM Update, 18th April 2018

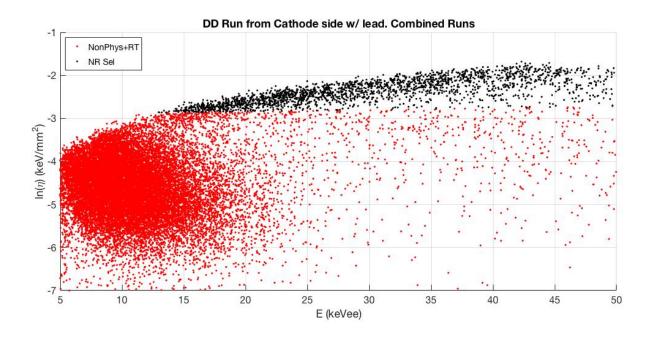
1) Update on Randy's CF4/SF6 measurements continued from UNM_UpdateDec6_2017 memo:

Background discrimination with the 1D detector (60 cm acrylic vessel, with 1 THGEM):

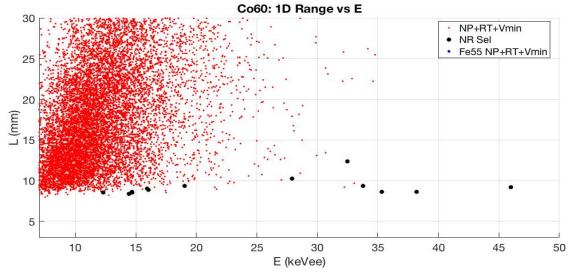
Co-60 + Fe-55 Runs:



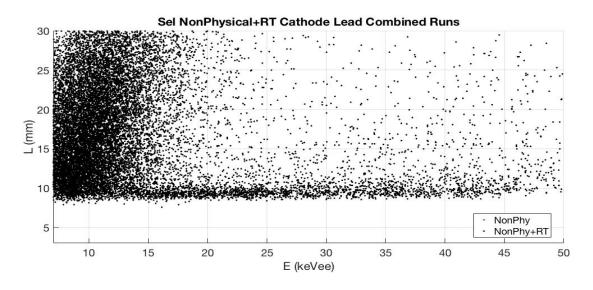
DD Runs:

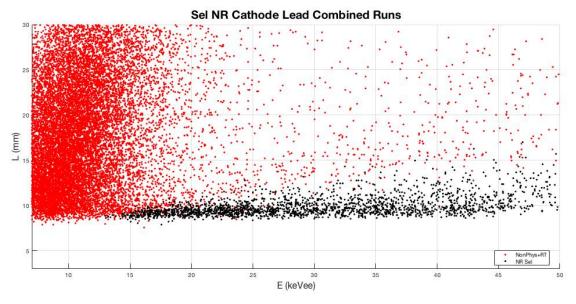


Co-60 Runs, 1D Range vs E:

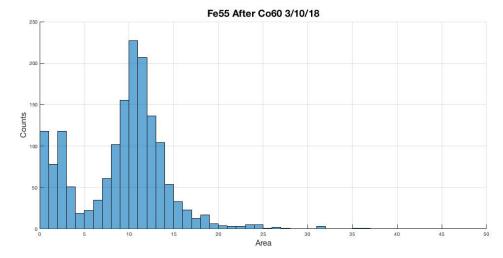


DD Runs, 1D Range vs E:





Fe-55 data:



2) Update on Negative Ion Gas TPC from last memo

Last memo showed results of 150 Torr CF4 plus upto 5 Torr CS2. Light yields, alphas and Fe-55 data were shown.

With a triple thin GEM detector in a 150 Torr CF4 + few torr SF6 we now see alpha tracks but cannot quantify the light yield (no Fe-55). We are beginning the next phase of this R&D with THGEMs.