

Channel Radiation Damage

Jared Foote, November 2018

Using LED data

Break runs into sets of 5: chains

Break detector into rings

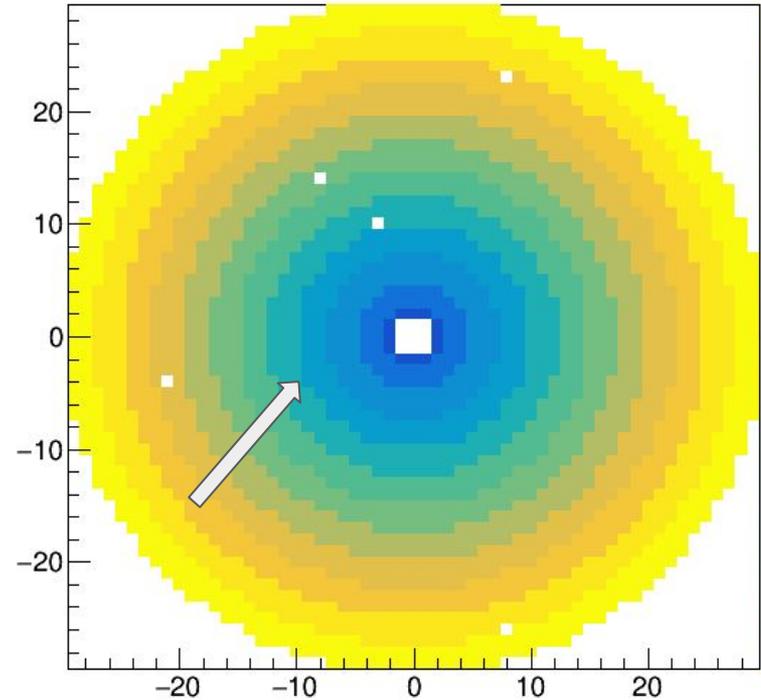
Break into colors

Double ratio:

$$\text{Ring ratio} = \frac{\text{Avg for one ring}}{\text{Avg for control ring}}$$

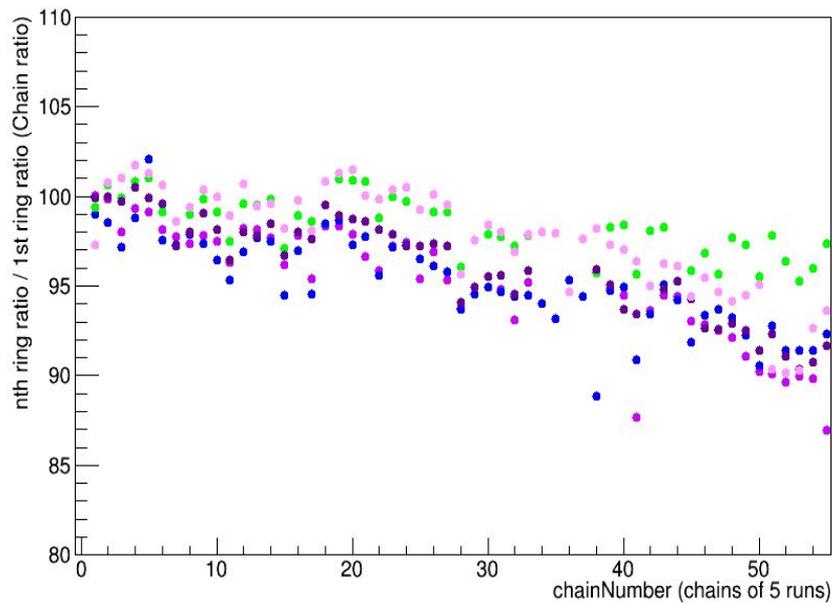
$$\text{Chain ratio} = \frac{\text{current chain ring ratio}}{\text{1st chain ring ratio}}$$

Detector ring breakdown

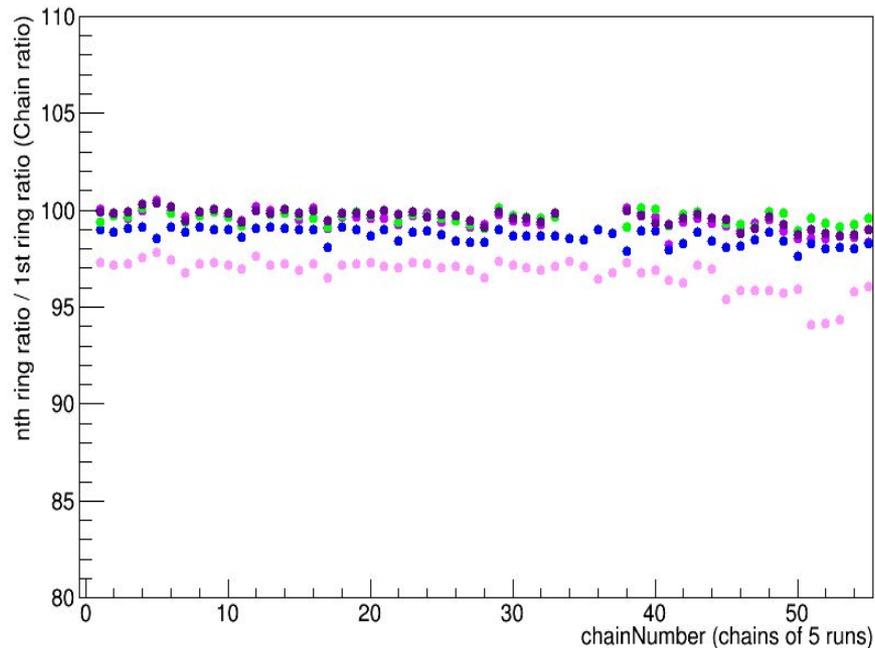


Reminder

2018 E Percentage vs chainNumber (10_20cm)

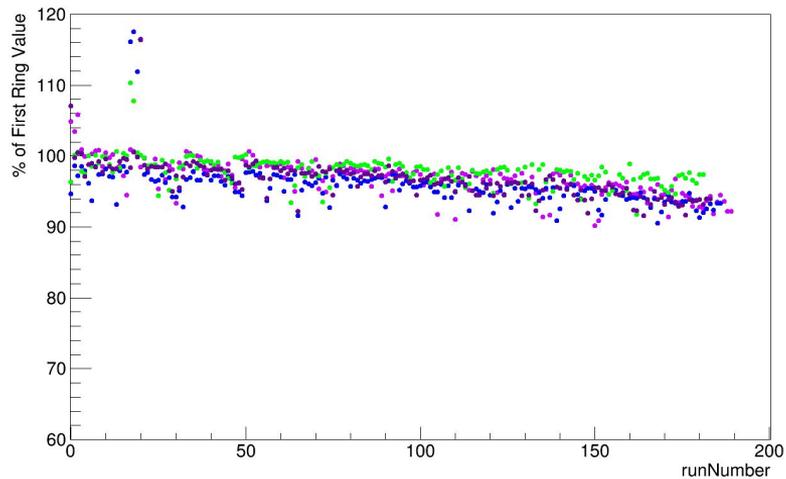


2018 E Percentage vs chainNumber (20_30cm)

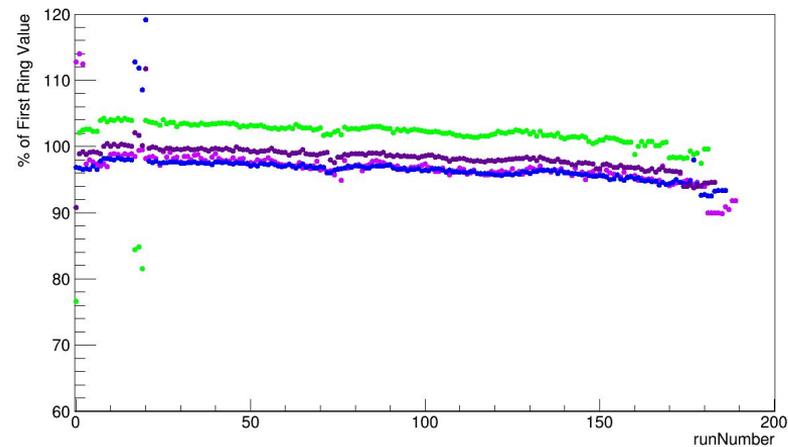


First look at channels

2018 E Percentage vs runNumber channel 1397

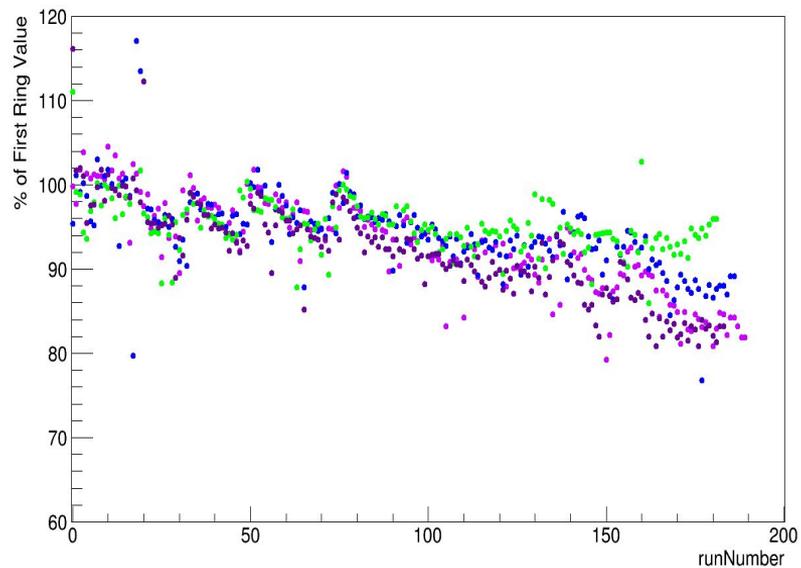


2018 E Percentage vs runNumber channel 1404

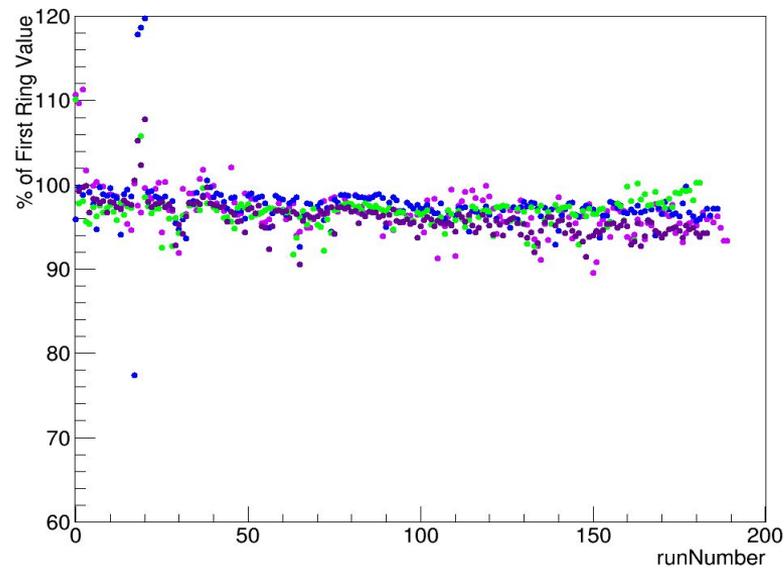


Above center hole

2018 E Percentage vs runNumber channel 1512

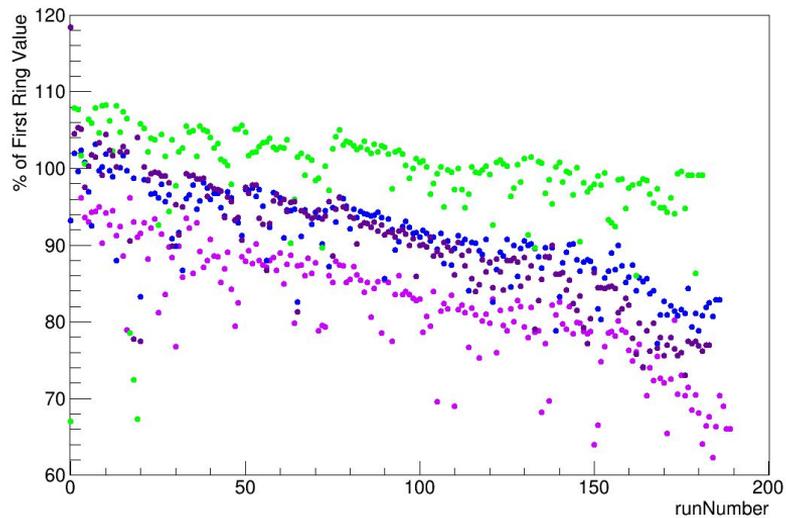


2018 E Percentage vs runNumber channel 1571

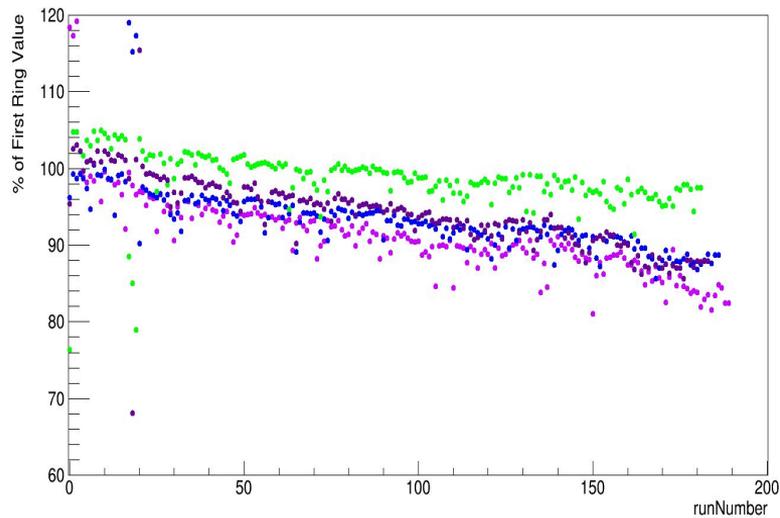


Right of center hole

2018 E Percentage vs runNumber channel 1400

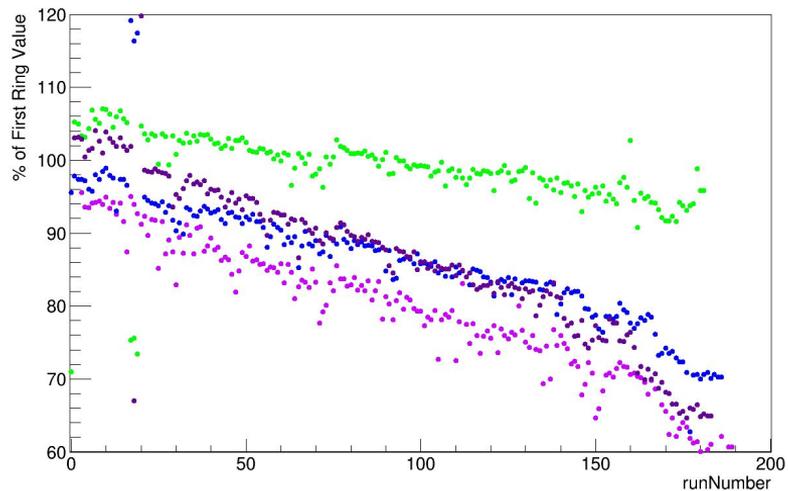


2018 E Percentage vs runNumber channel 1401

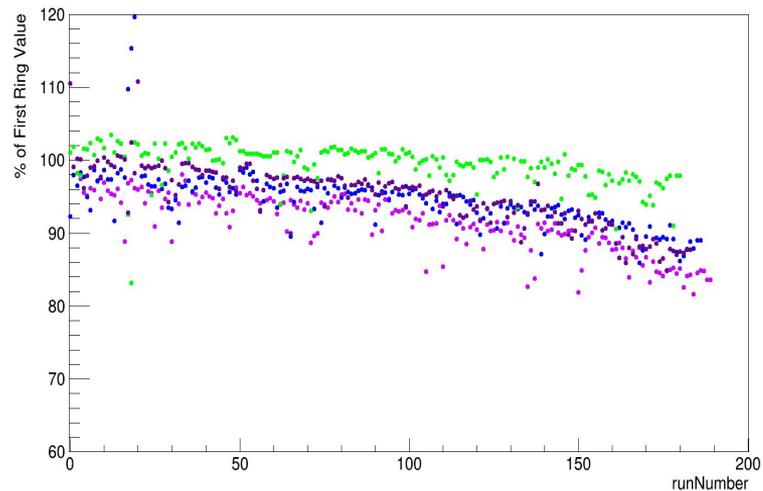


Below center hole

2018 E Percentage vs runNumber channel 1286

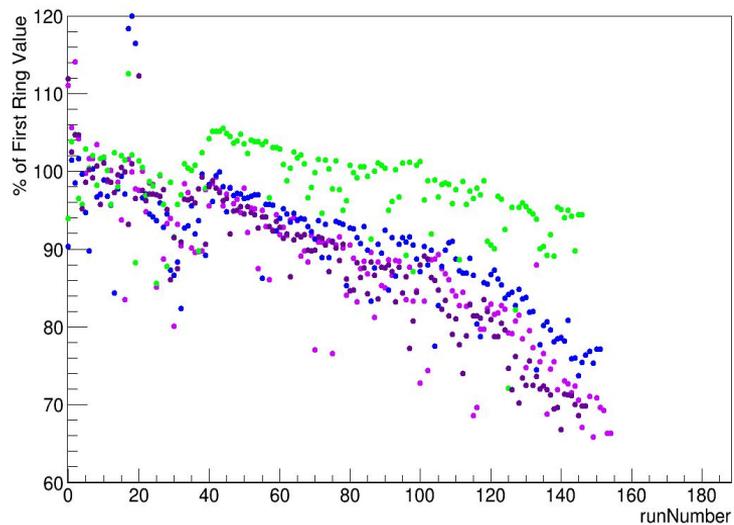


2018 E Percentage vs runNumber channel 1227

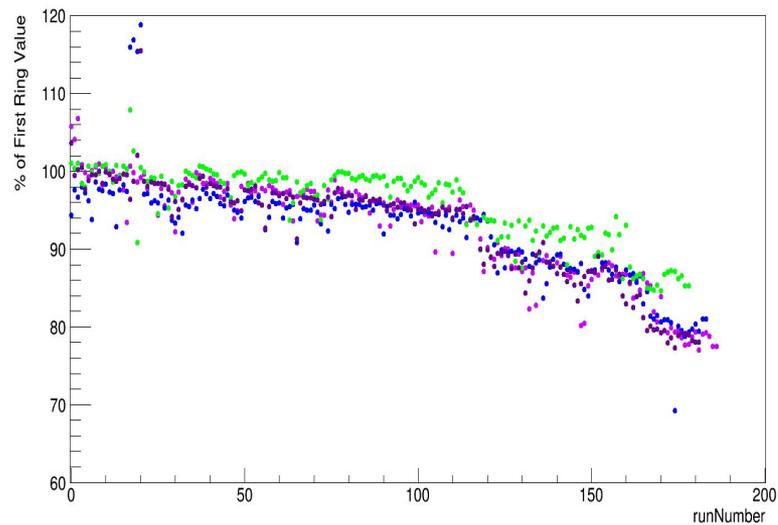


Left of center hole

2018 E Percentage vs runNumber channel 1399

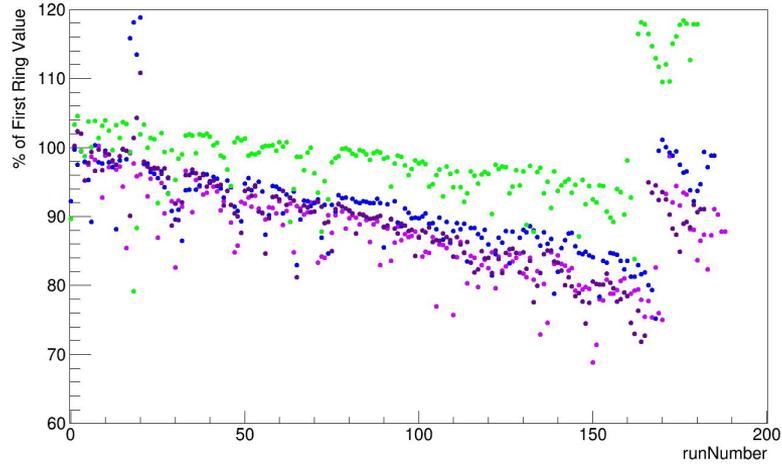


2018 E Percentage vs runNumber channel 1398

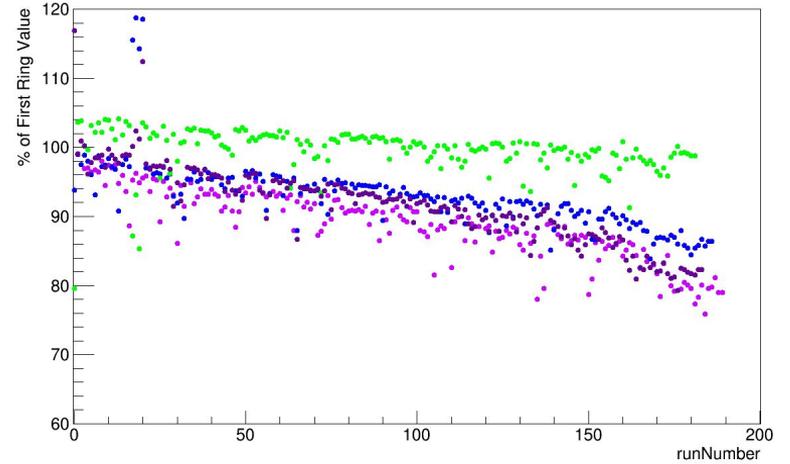


above

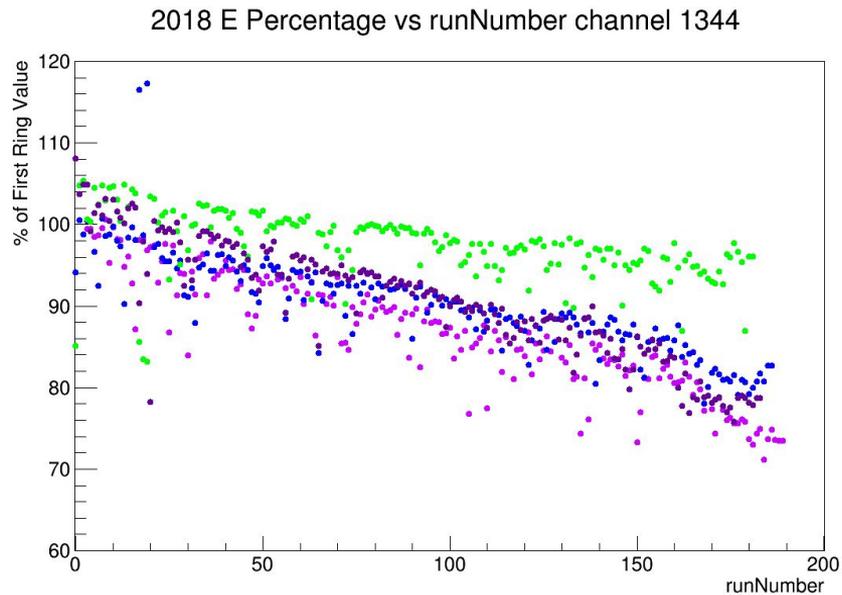
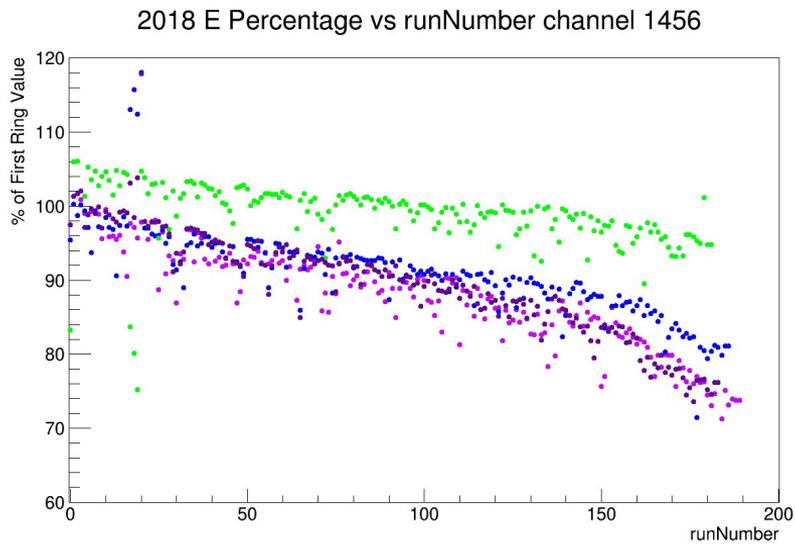
2018 E Percentage vs runNumber channel 1513



2018 E Percentage vs runNumber channel 1514

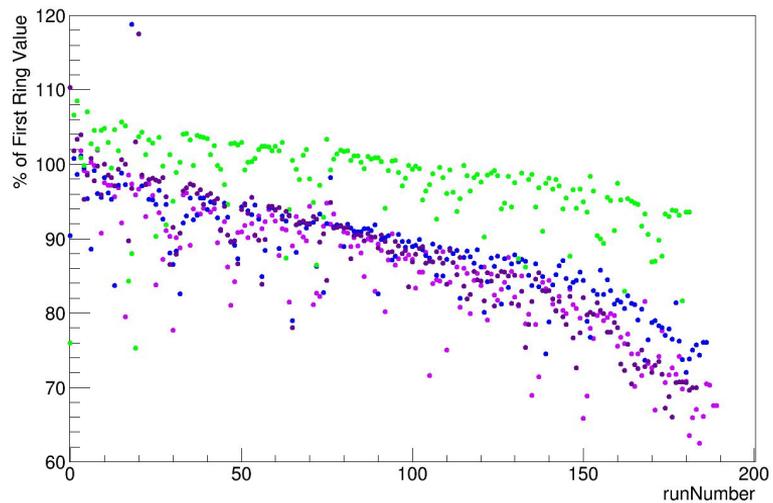


right

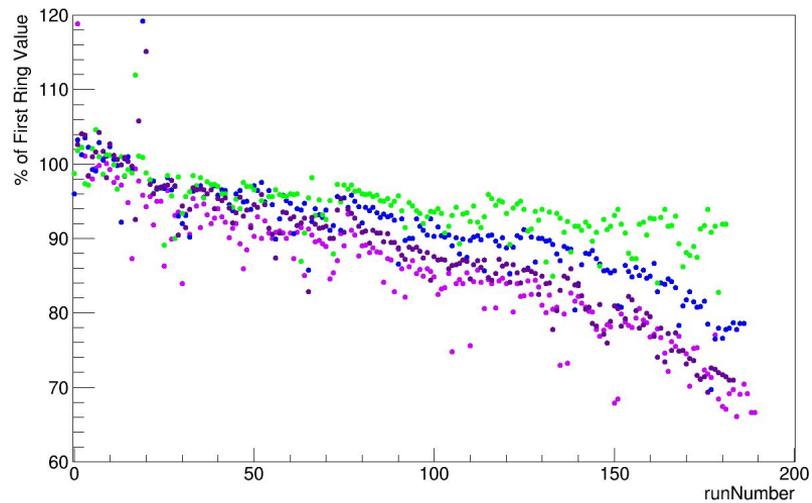


below

2018 E Percentage vs runNumber channel 1287

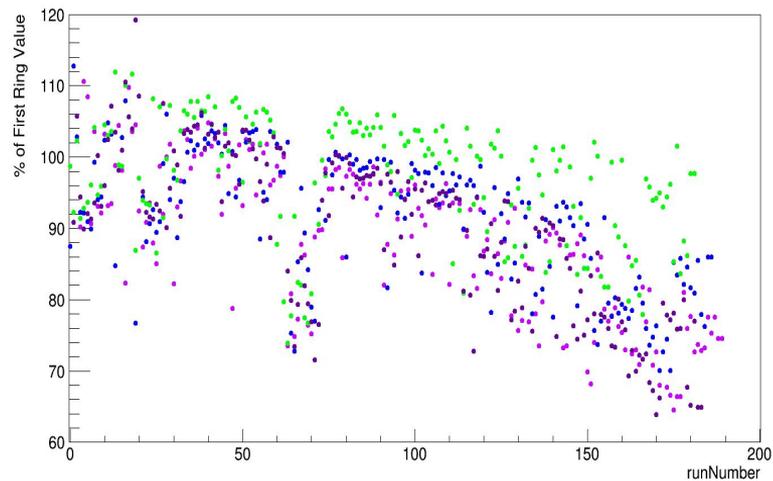


2018 E Percentage vs runNumber channel 1285

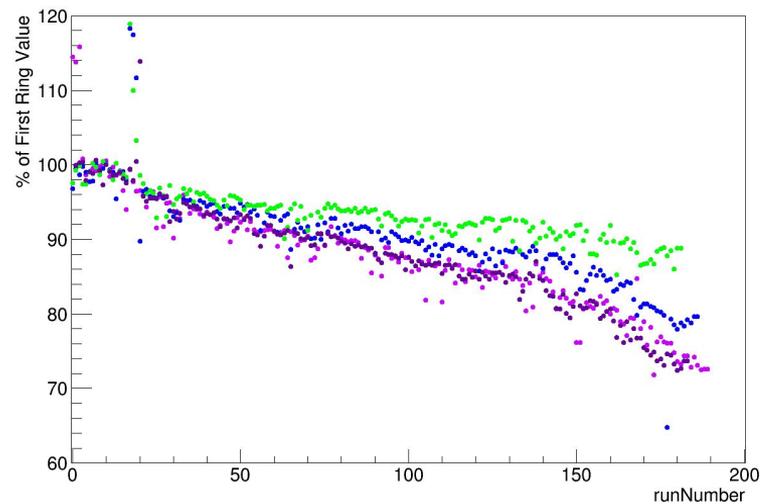


left

2018 E Percentage vs runNumber channel 1343

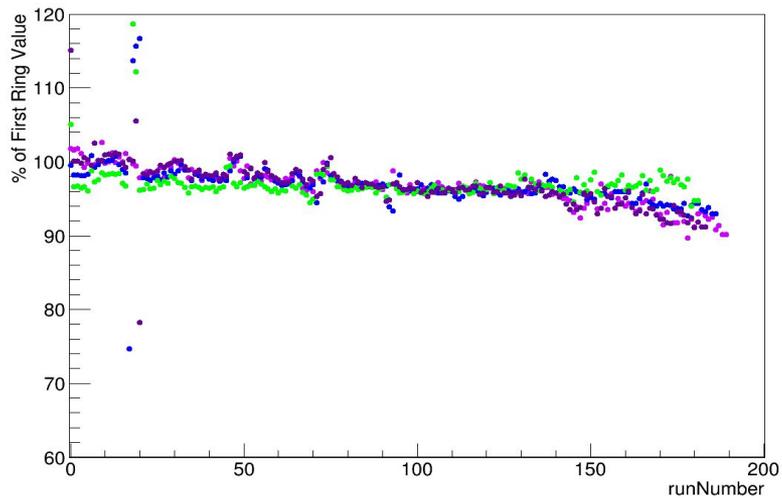


2018 E Percentage vs runNumber channel 1455

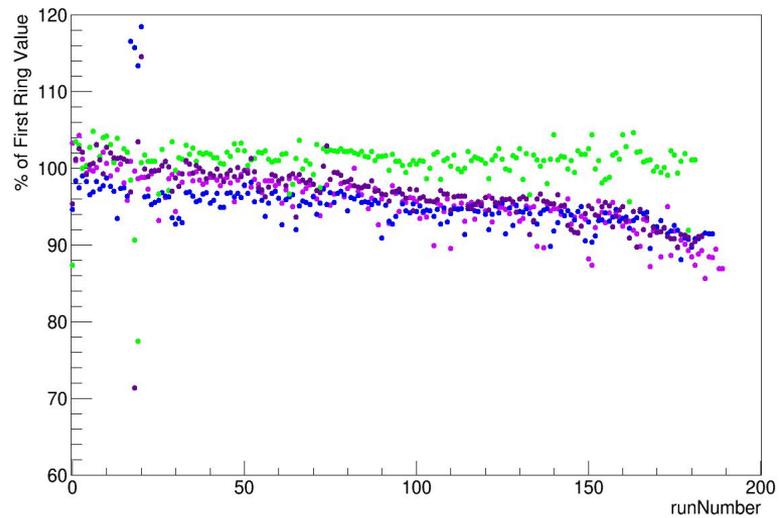


corners

2018 E Percentage vs runNumber channel 1511

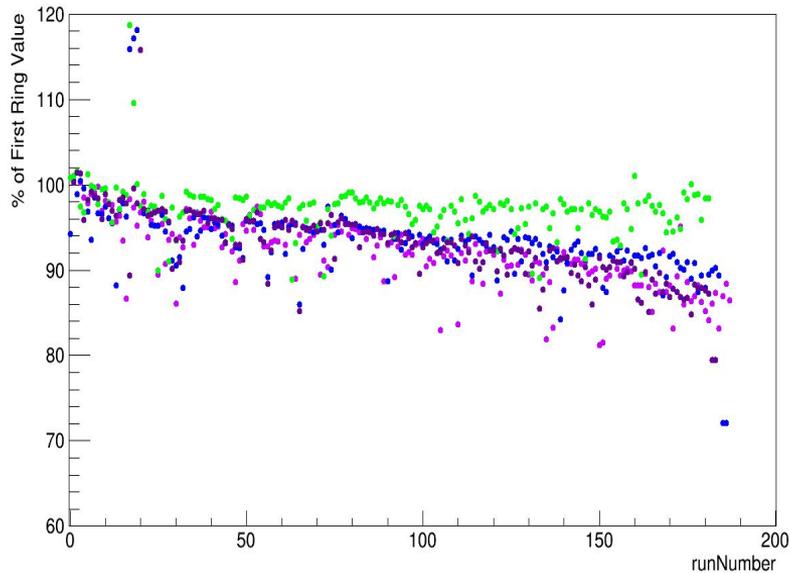


2018 E Percentage vs runNumber channel 1515



corners

2018 E Percentage vs runNumber channel 1284



2018 E Percentage vs runNumber channel 1288

