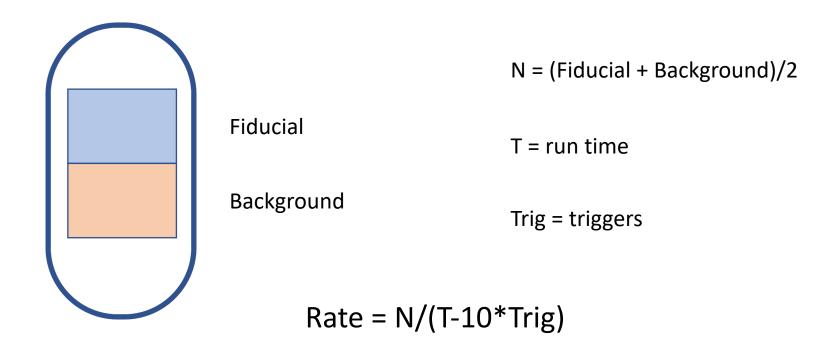
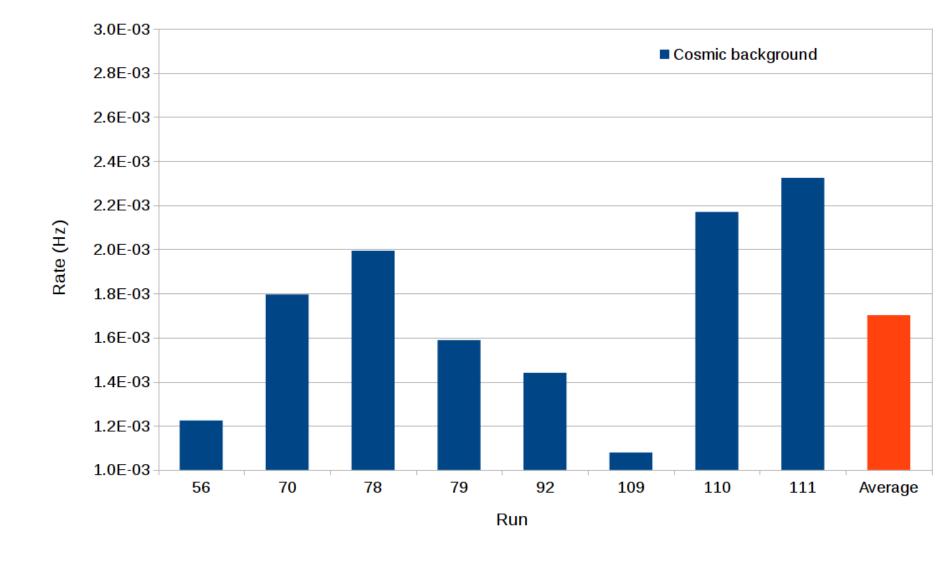
## Cosmic ray background (beam intensity independent)

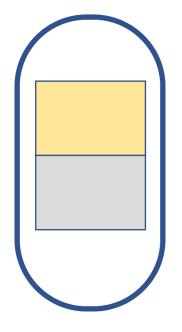


Used runs 56, 70, 78, 79, 92, 109, 110, 111



Cosmic ray background average = 1.7E-3 Hz

## Beam induced background (calculated at I = 50 $\mu$ A, E = 4 MeV)



N = (Fiducial – Background)

**Fiducial** 

T = run time

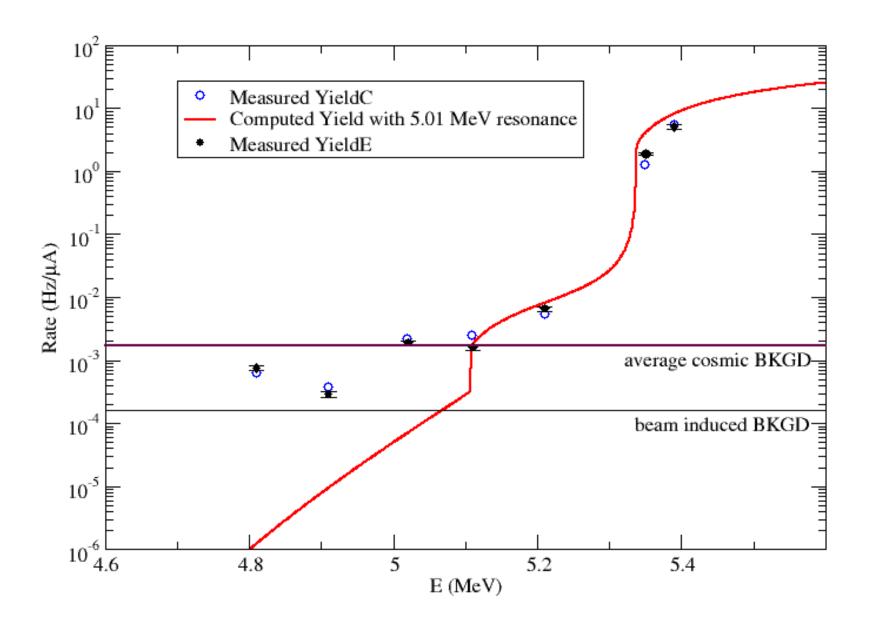
Background

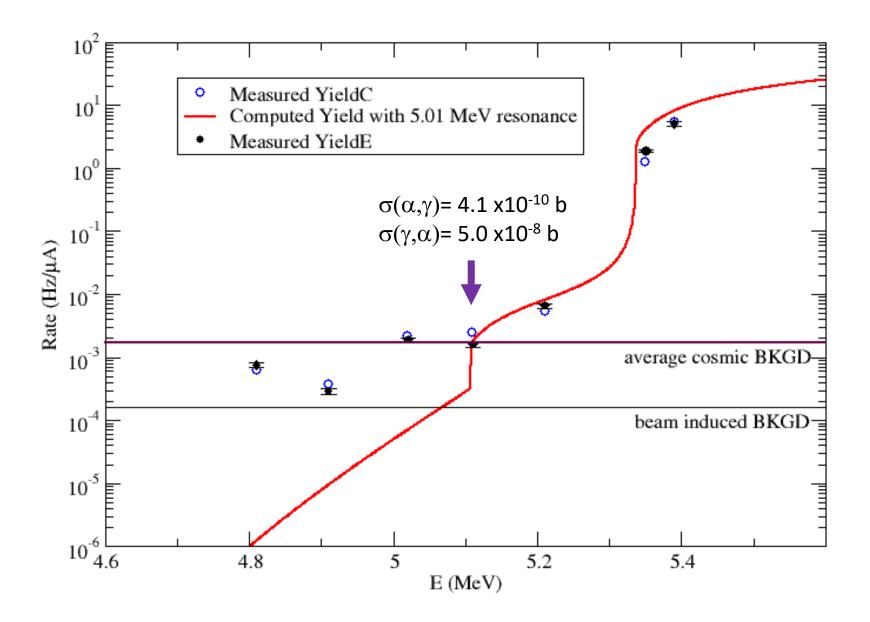
Trig = triggers

Rate = N/(T-10\*Trig)

Used run 91

Beam induced background = 8.3e-3 Hz, 1.7e-4 Hz/ $\mu$ A





	Rate (Hz) @ 50uA	Rate (Hz/uA)
Average rate fiducial @ 4.81 MeV	3.12E-2	6.25E-4
Average rate fiducial @ 4.91 MeV	1.83E-2	3.66E-4
Beam induced BKGD	8.30E-3	1.66E-4
Average Cosmic BKGD	1.70E-3	1.70E-3