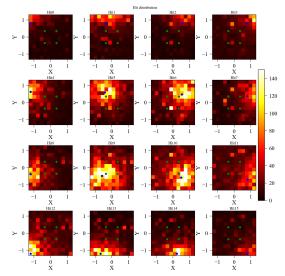
GRAiNITA Muon Test Bench Status (GMTBS)

03/05/24

First results

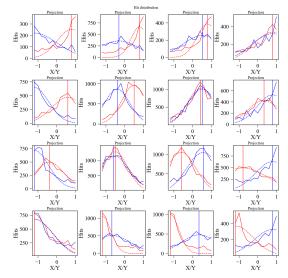
ASM 16 channels readout

2 weeks of data taking, plot at the top of the detector



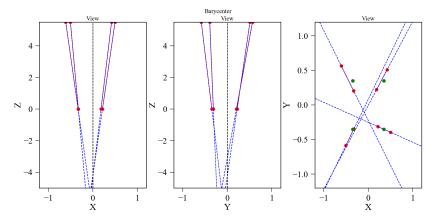
First results

- ASM 16 channels readout
- 2 weeks of data taking



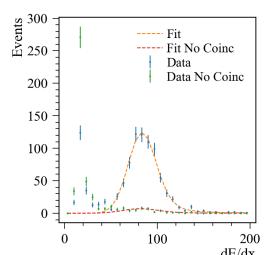
First results

Maybe we should move th eplots to the middle of the detector to be more "centered" around the fibre



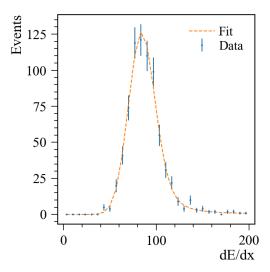
First results : DN/dx

- Number of photo-electron/distance travelled
- distance to center < 1.4 cm and distance travelled by the muons > 5.5 cm
- Results plagued with fake coincidences



First results : DN/dx

Adding having at least one fibre > 80 PE (cut DN/dx < 14.5)</p>



MPV: 84.3 PE/cm

$LY = \frac{MPV * 5.5 \text{ cm} - \text{Dark Noise}}{40 \text{ MeV}}$

Dark noise :

Channel	0	1	2	3	4	5	6	7
Dark noise (PE)	8.7	4.84	6.62	3.86	7.42	4.04	4.42	3.94
Channel	8	9	10	11	12	13	14	15
Dark noise (PE)	3.88	4.42	3.02	4.48	3.32	4.26	3.28	3.68

LY = 9700 PE/GeV