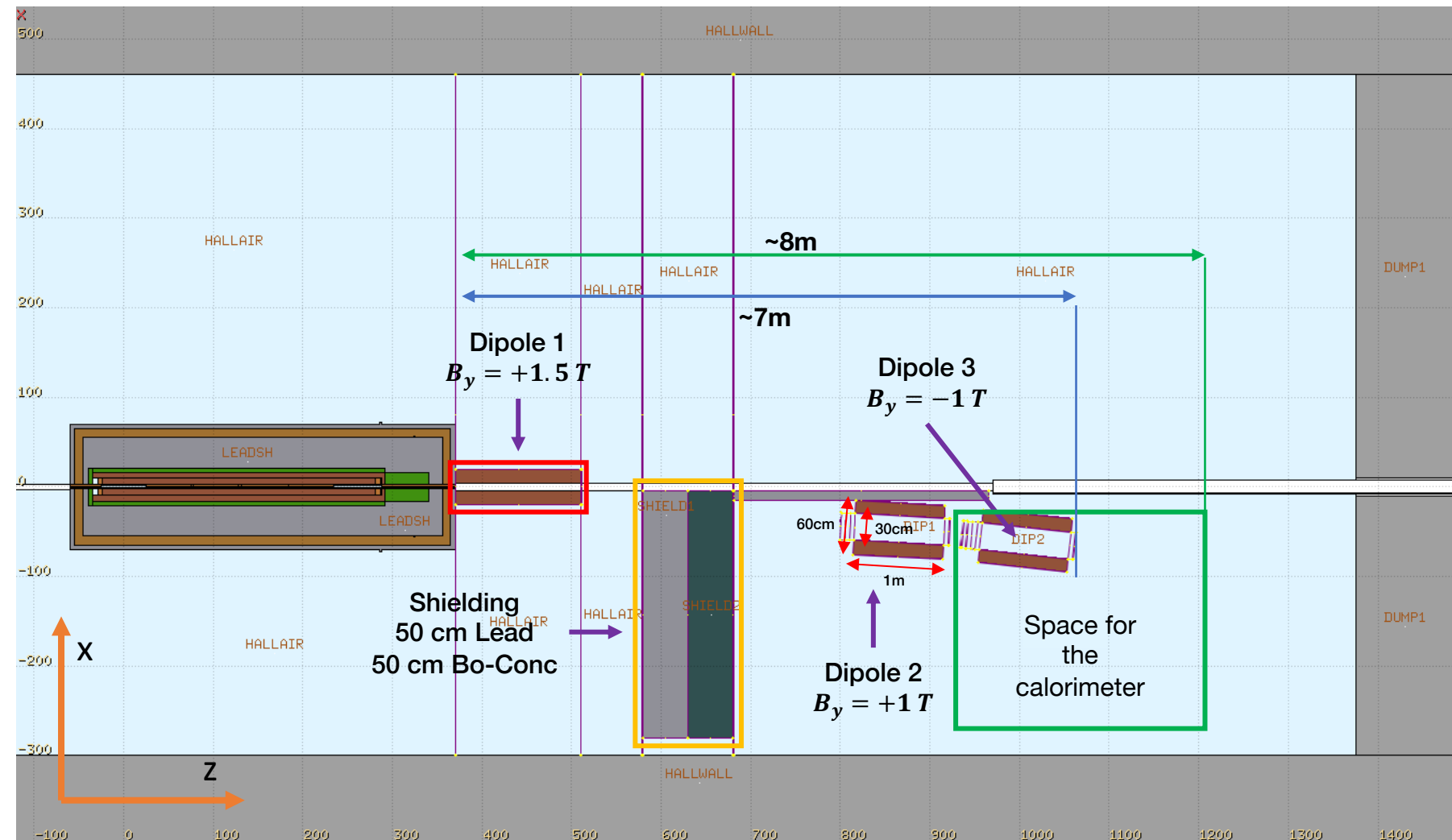


Old geometry

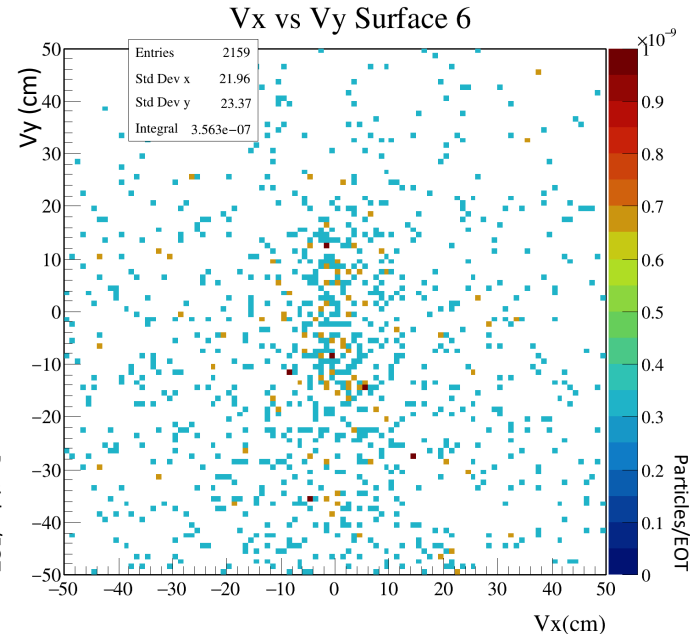
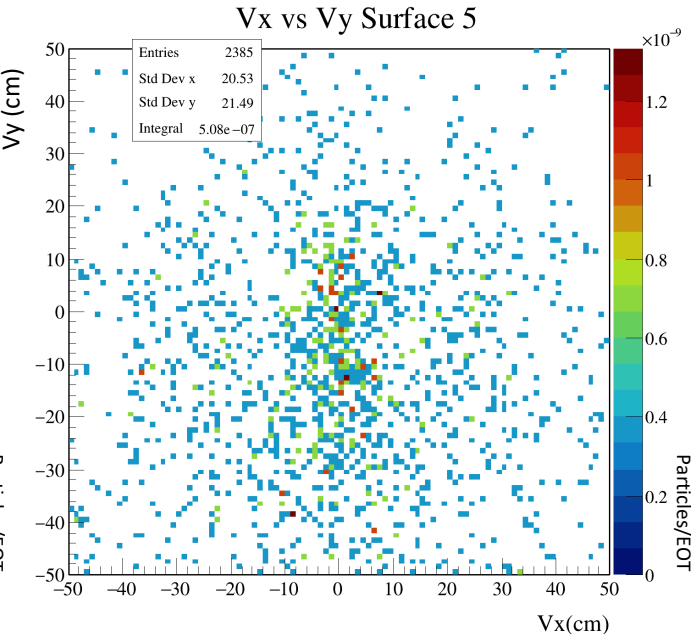
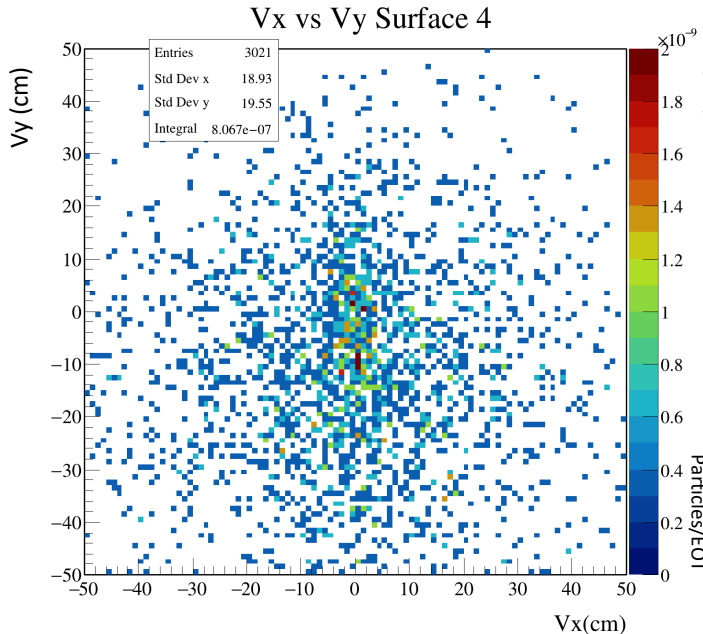
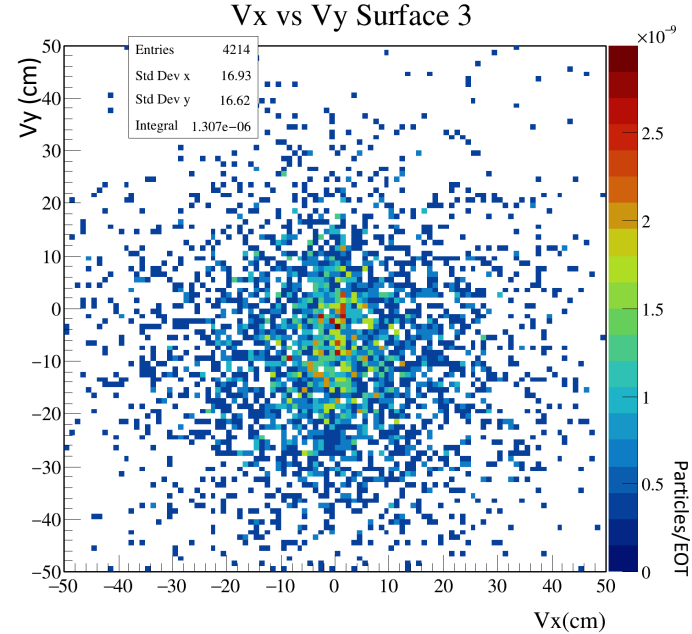
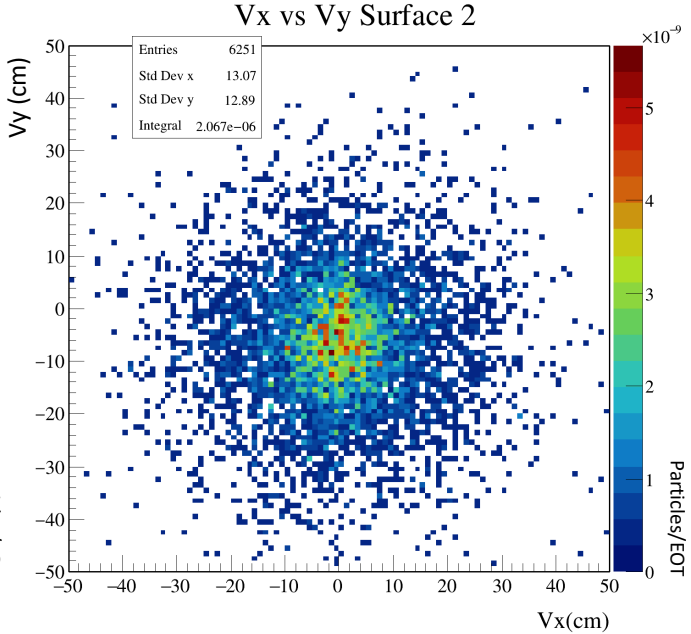
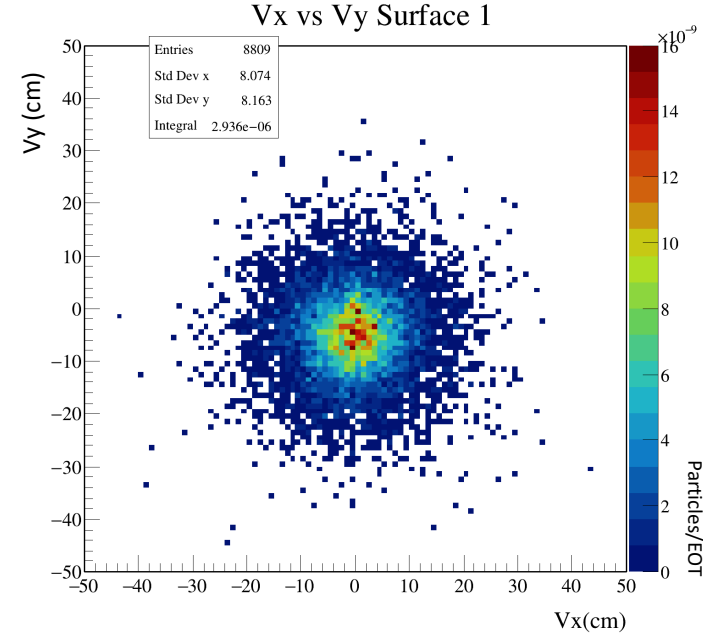


- **Dipole 1**
 - Bend muons out of the beamline
 - Outer dimensions: $40 \times 40 \times 140 \text{ cm}$
 - Inner dimensions: $8.8 \times 27 \times 140 \text{ cm}$
 - Field: $B_y = +1.5 T$
- **Dipole 2 & 3**
 - Measure muons' momentum
 - Outer dimensions: $60 \times 60 \times 100 \text{ cm}$
 - Inner dimensions: $30 \times 30 \times 100 \text{ cm}$
 - Field: $B_y = \pm 1.0 T$
- **Shielding**
 - 50 cm thick Lead
 - 50 cm thick Boron (30%) concrete
 - 10 cm thick lead on the side

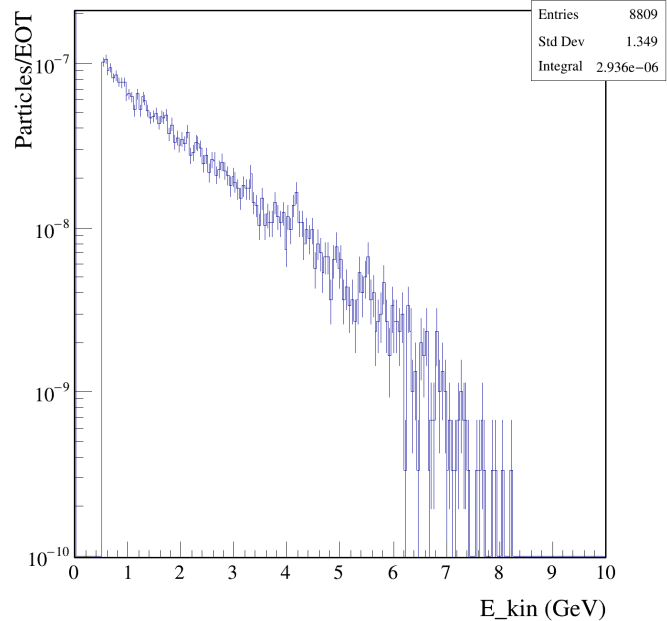
➤ The setup use $\sim 7 \text{ m}$

- Need of another $\sim 1 \text{ m}$ after the dipole to accommodate a calorimeter
- The space can be reduced using a setup similar to M3 & a stronger initial magnet
 - Only 2 dipole (1 & 2)
 - Initial tracker & target inside the dipole

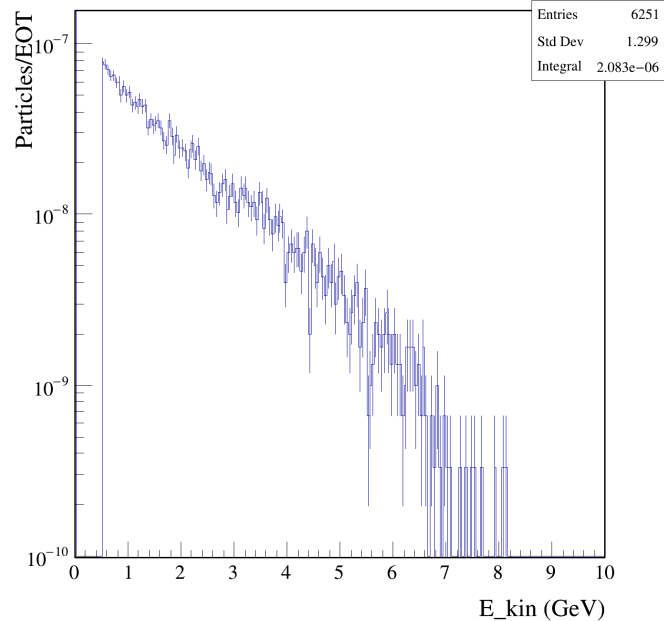
Muons with $B_x = +0.23 T$ permanent magnet



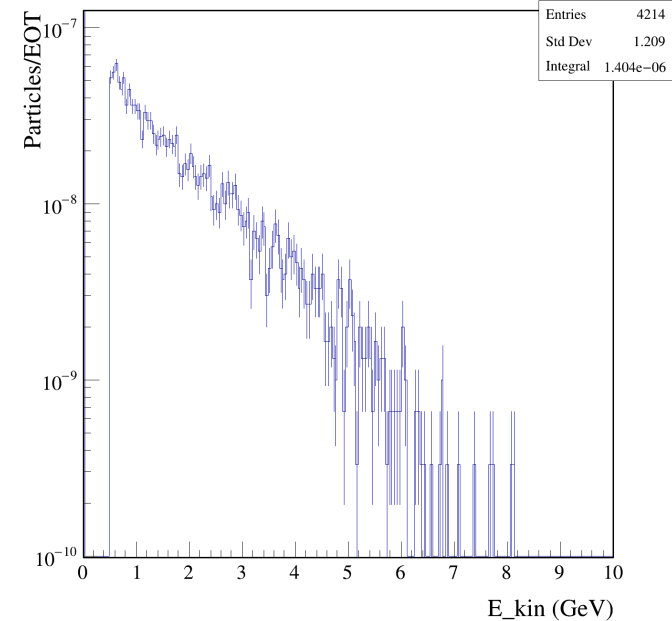
Spectra Surface 1



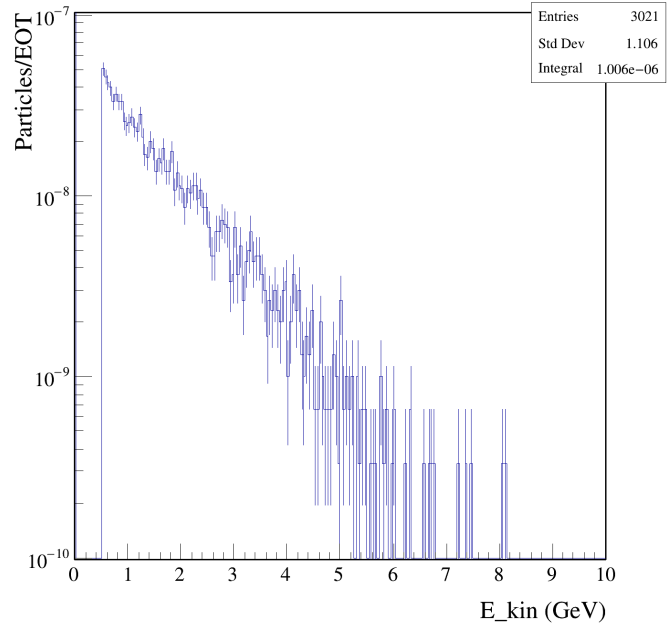
Spectra Surface 2



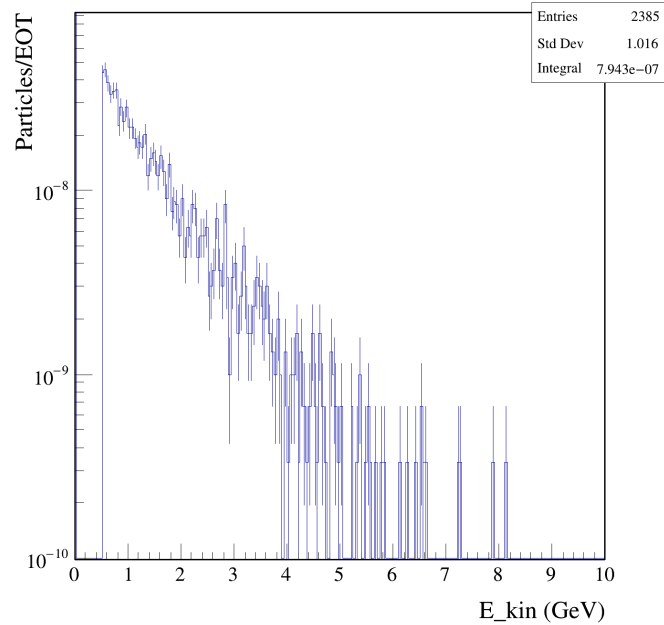
Spectra Surface 3



Spectra Surface 4



Spectra Surface 5



Spectra Surface 6

