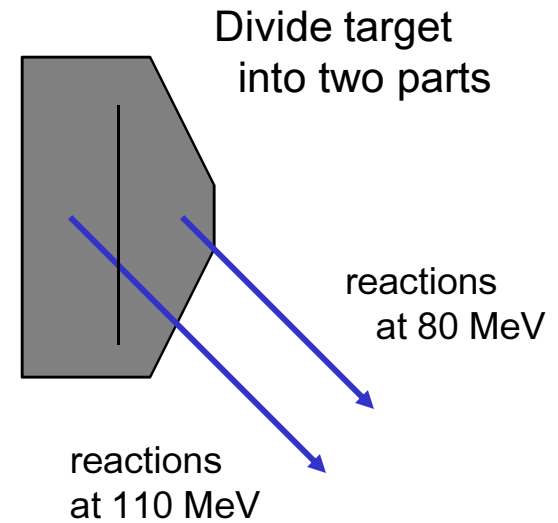
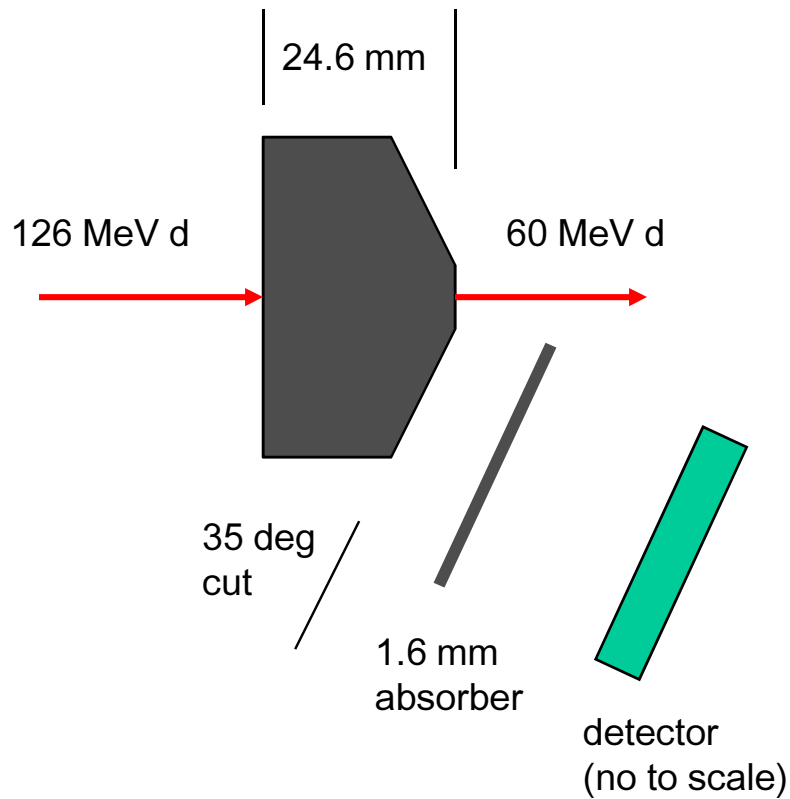


# Rough Polarimeter Design Features



Visible particles:

deuterons up to  $E_x = 25$  MeV at 80 MeV  
20 MeV at 110 MeV  
protons up to  $E_x = 40$  MeV at 80 MeV  
65 MeV at 110 MeV

Energy loss will emphasize protons from the front of the target.

Efficiency =  $N_T \sigma \Omega$  ← half of full circle

	start at 27°		start at 35°	
	Eff.(%)	A	Eff.(%)	A
d @ 110	1.77	0.36	0.46	0.48
p @ 110	4.26	0.10	1.32	0.17
d @ 80	0.58	0.15	0.21	0.29
p @ 80	0.41	0.09	0.17	0.17
total	7.02	0.17	2.16	0.25
FOM		0.20		0.13

Deuterons have large analyzing power.

Response is dominated by protons.