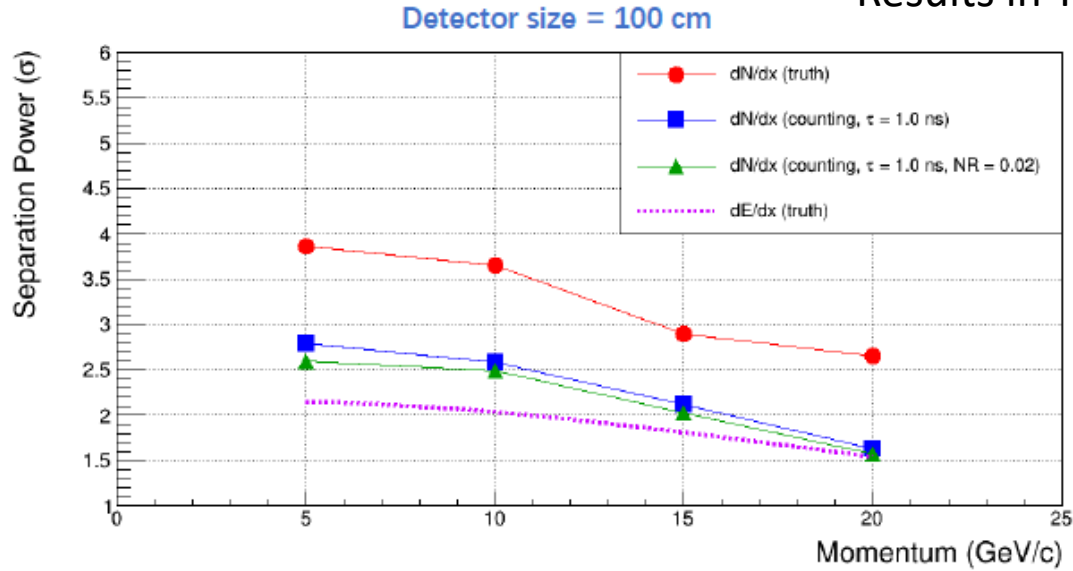


Estimation of DC parameters

Linghui Wu

Simulation of PID

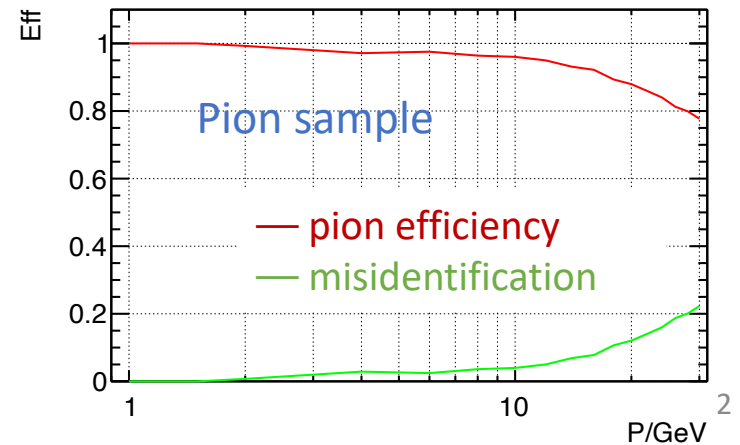
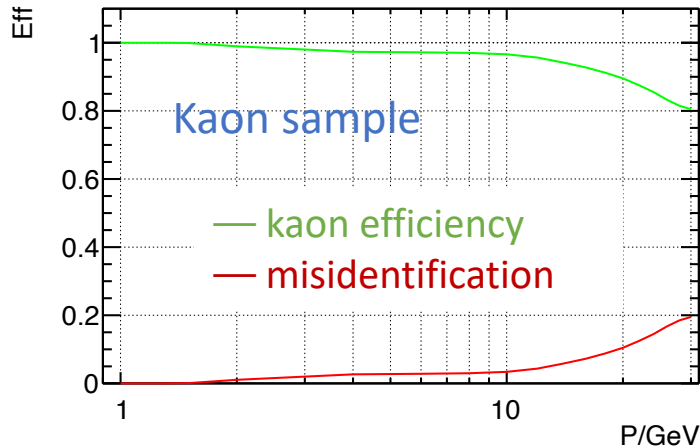
Results in Yangzhou workshop

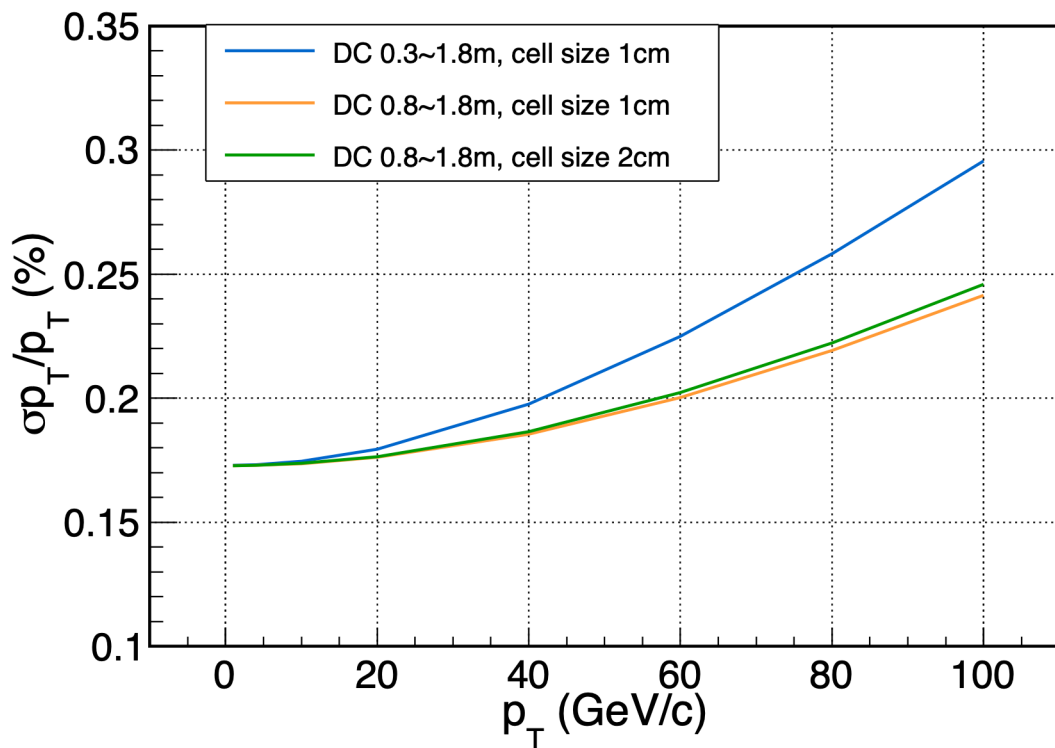
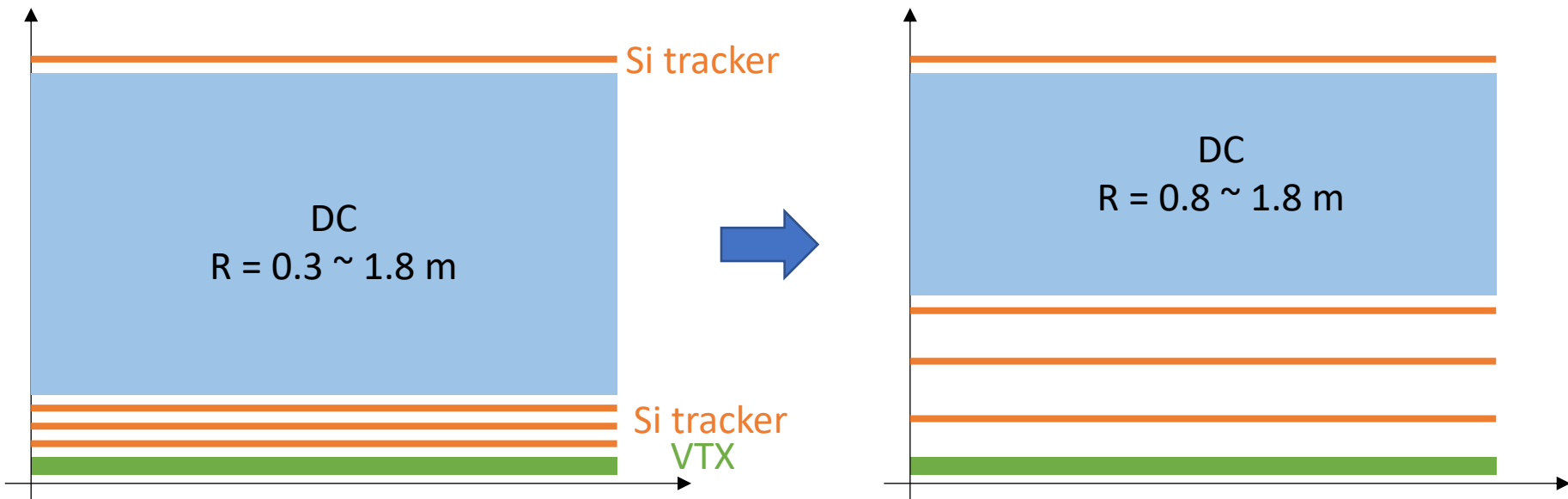


Fast simulation of PID efficiency in CEPCSW

Thickness of DC = 1m

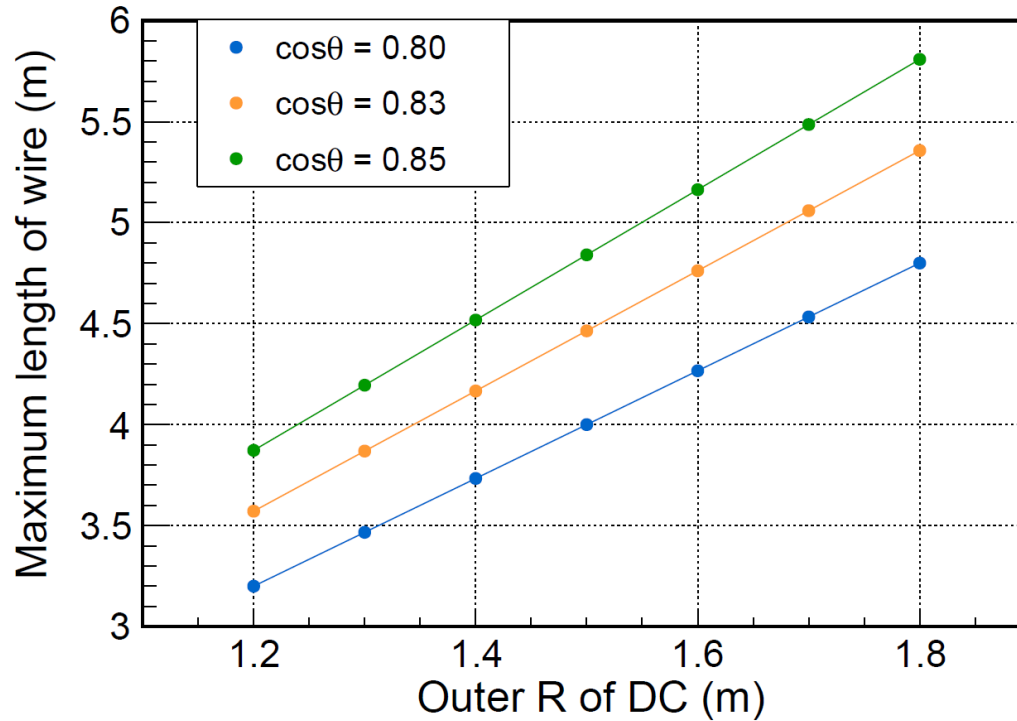
Shuiting





To be further validated

Calculation of wire length

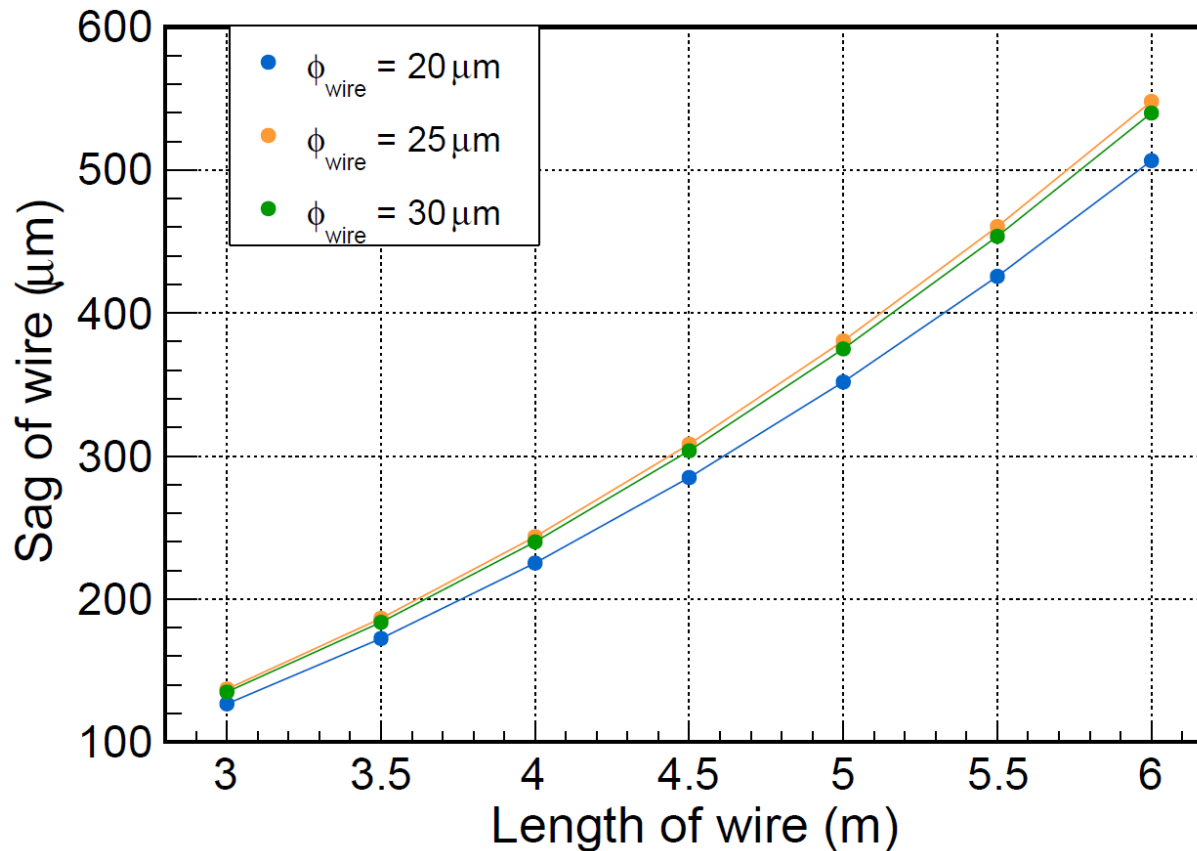


Length of wire for DC (m)

$\cos\theta \backslash R(m)$	1.2	1.3	1.4	1.5	1.6	1.7	1.8
0.80	3.20	3.46	3.73	4.00	4.27	4.53	4.80
0.81	3.31	3.59	3.87	4.14	4.42	4.70	4.97
0.82	3.44	3.72	4.01	4.30	4.58	4.87	5.16
0.83	3.57	3.87	4.17	4.46	4.76	5.06	5.36
0.84	3.72	4.03	4.33	4.64	4.95	5.26	5.57
0.85	3.87	4.20	4.52	4.84	5.16	5.49	5.81

Wire sag vs wire length (for sense wire)

Tension = 60% * Tension_max



Parameters from BESIII DC, provided by Prof. Y.B Chen

Estimation of number of wires (F+S)

