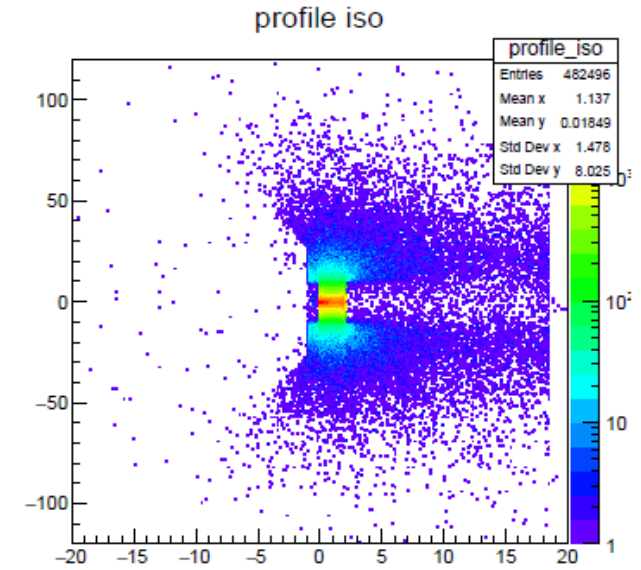
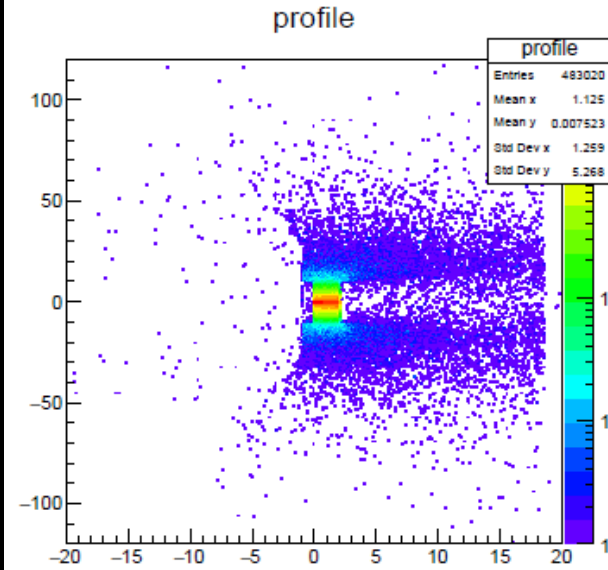
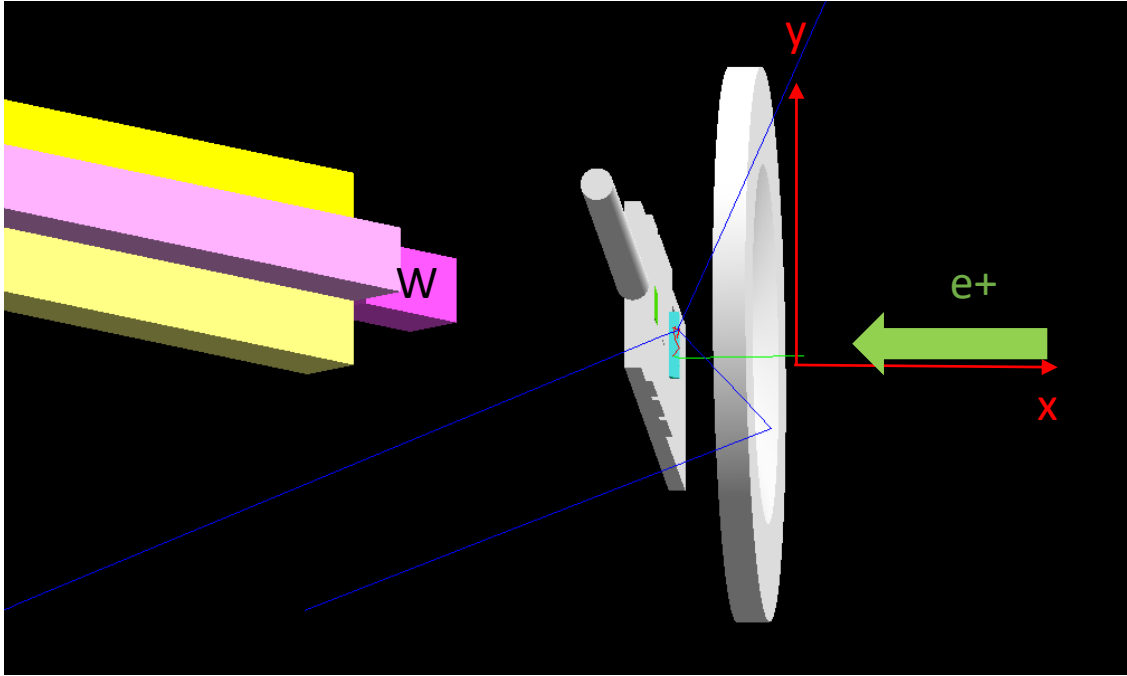


Positronium measurement preparation

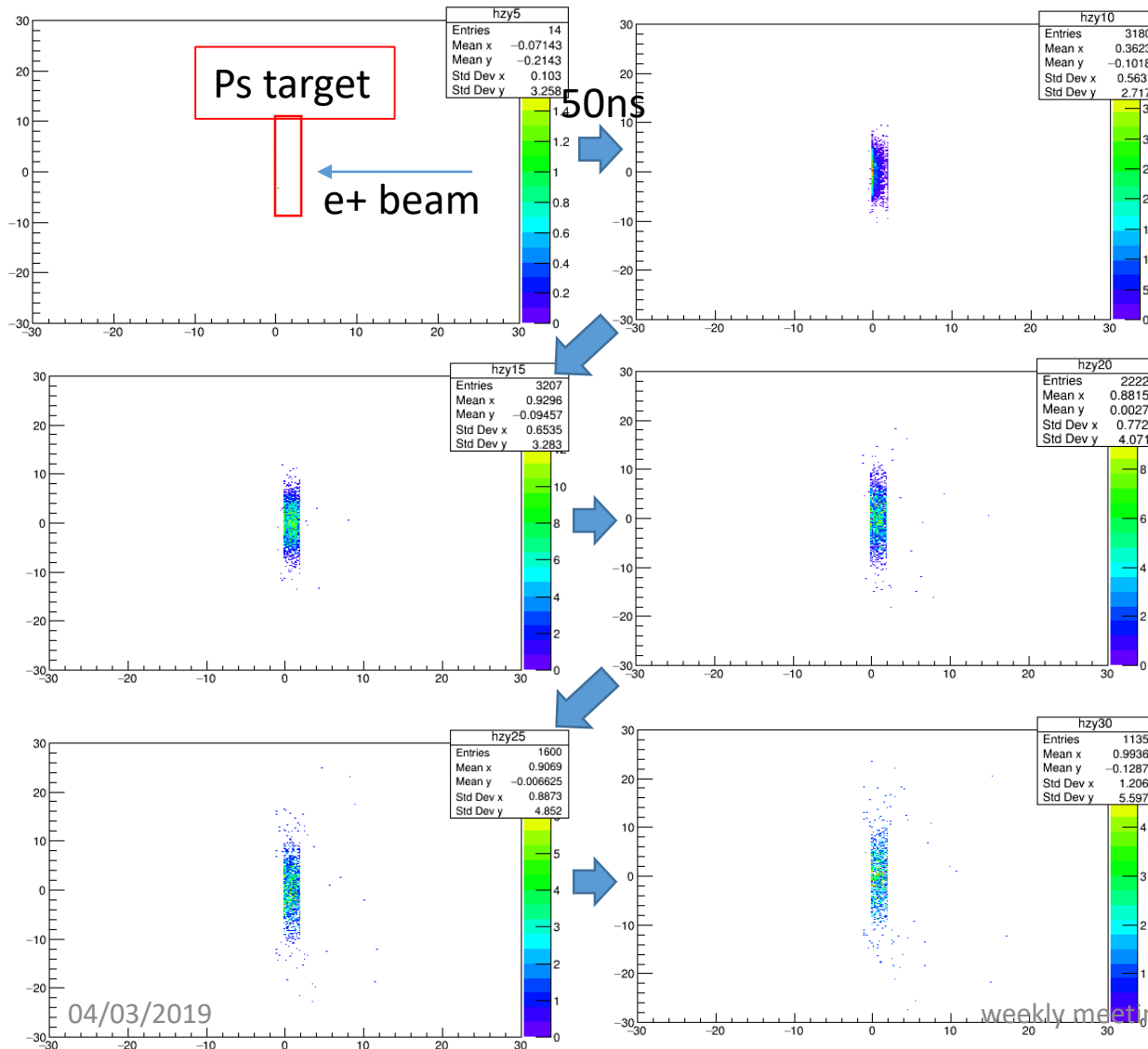
Bongho Kim

Simulation for oPs



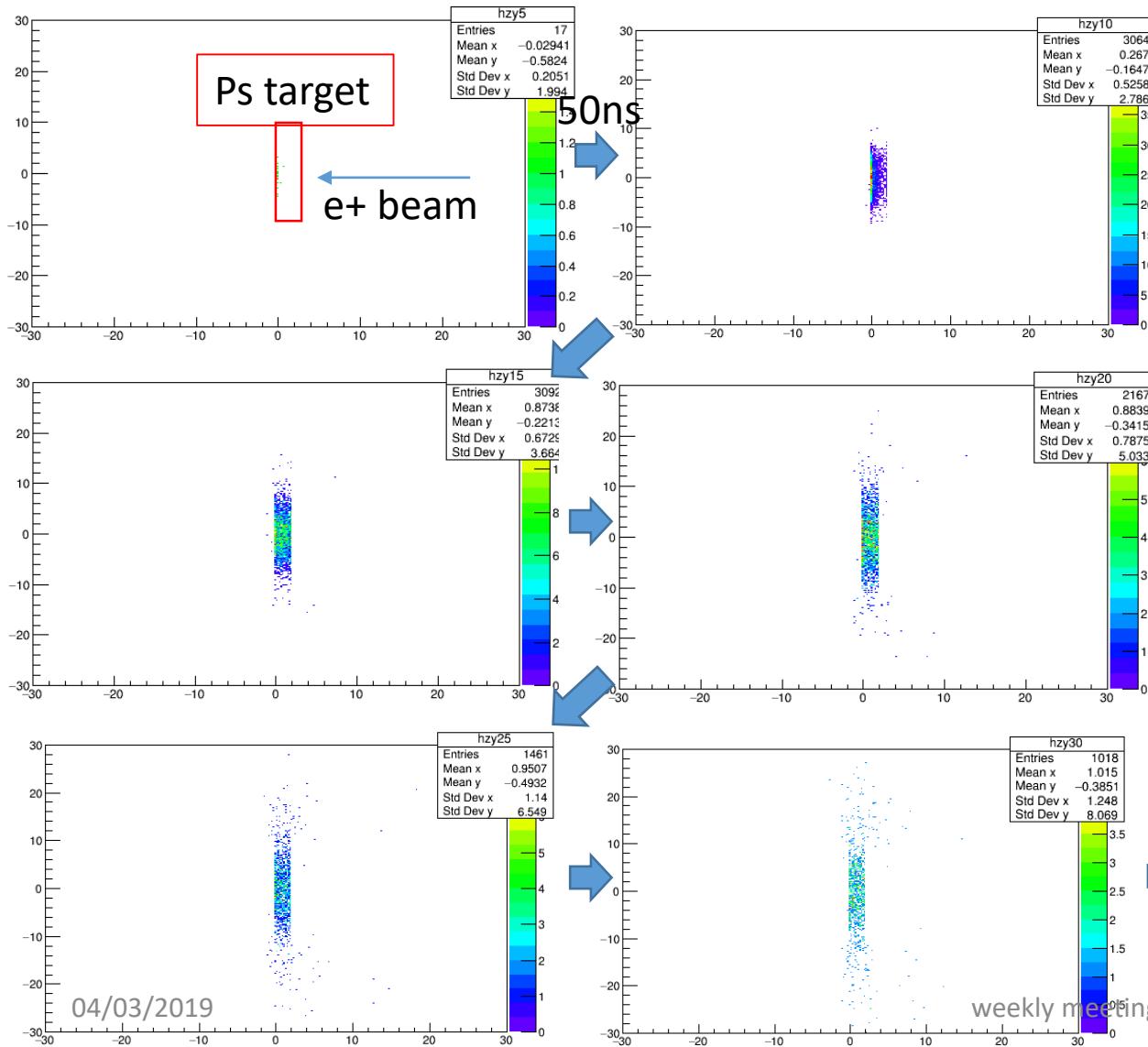
- Positronium spread depends on positronium generation & reflection property (not only energy)

Positronium in the target (cos)



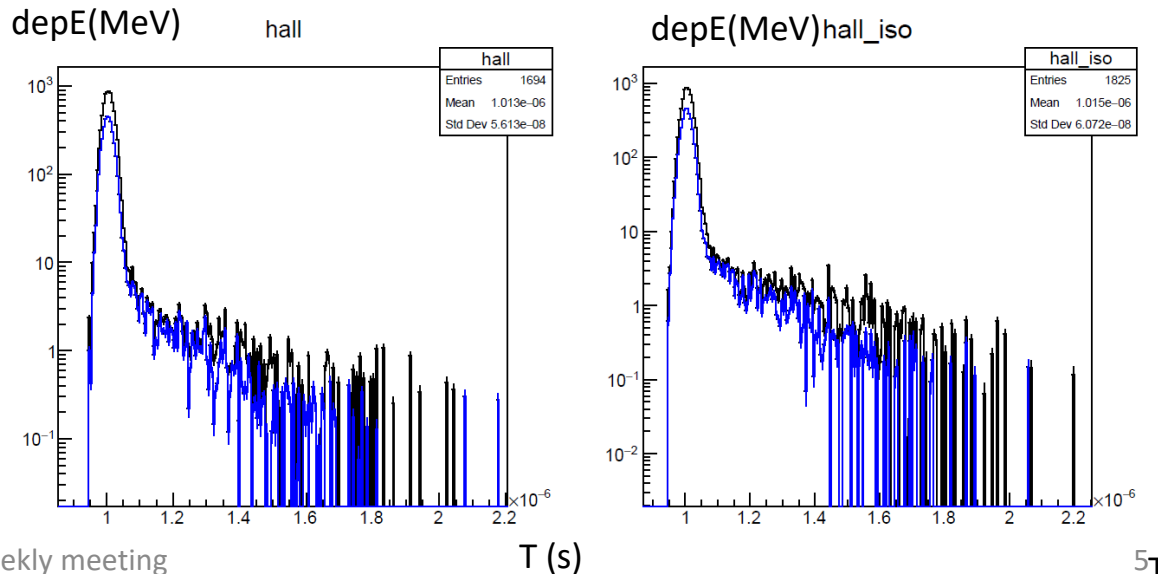
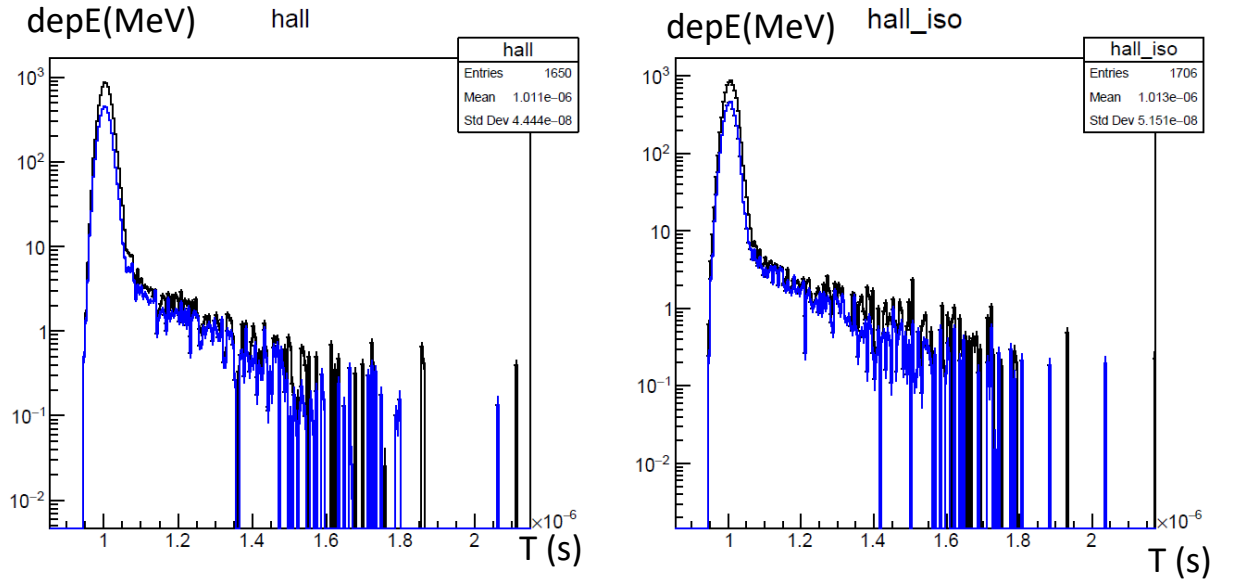
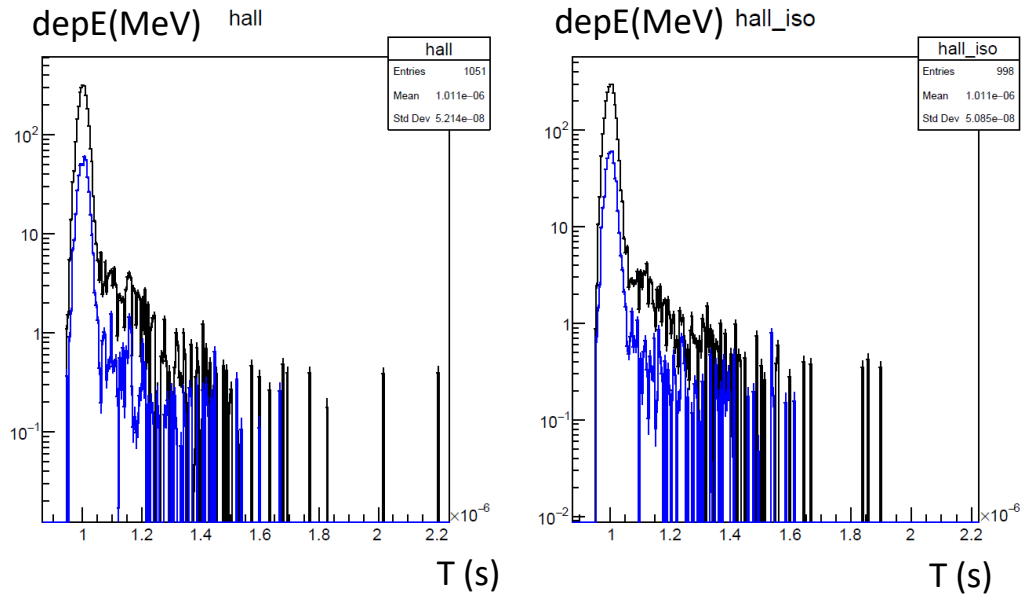
Time	Fraction (in/all)	Total Amount
-50ns	0.93	14
0ns	0.98	3181
50ns	0.97	3208
100ns	0.942	2223
150ns	0.923	1601
200ns	0.898	1137
250ns	0.845	808
300ns	0.807	587

Positronium in the target (iso)



Time	Fraction (in/all)	Total Amount
-50ns	1	17
0ns	0.978	3064
50ns	0.958	3092
100ns	0.926	2167
150ns	0.923	1601
200ns	0.861	1464
250ns	0.770	1028
300ns	0.73	742

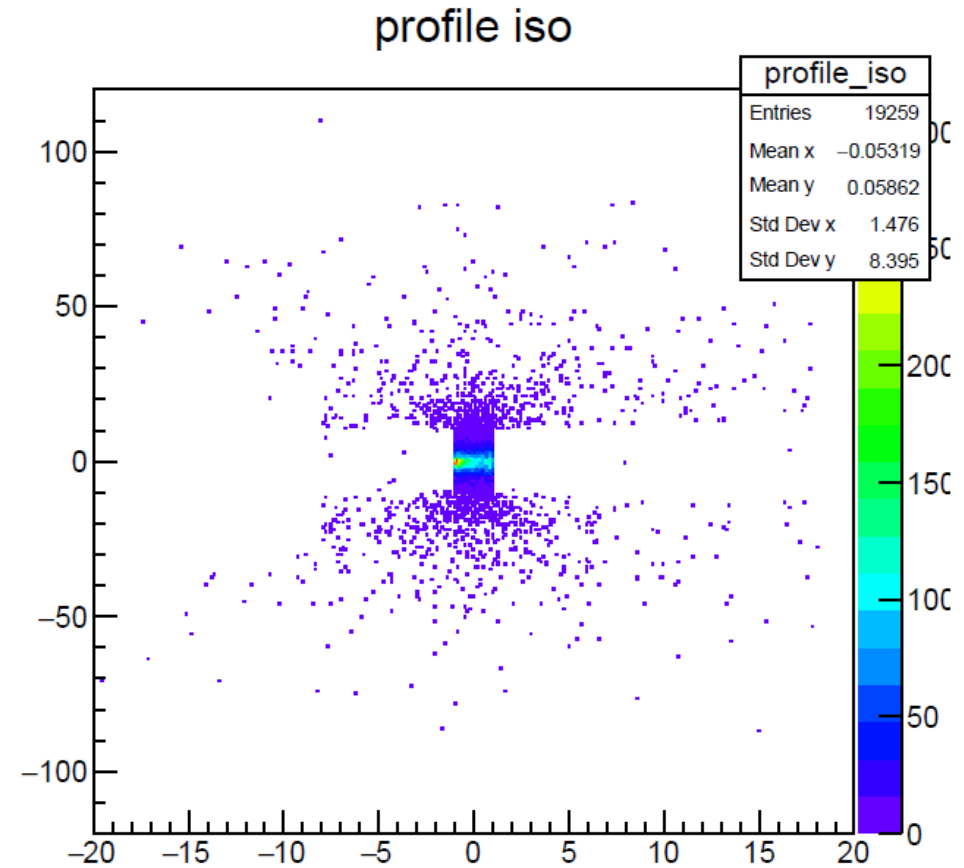
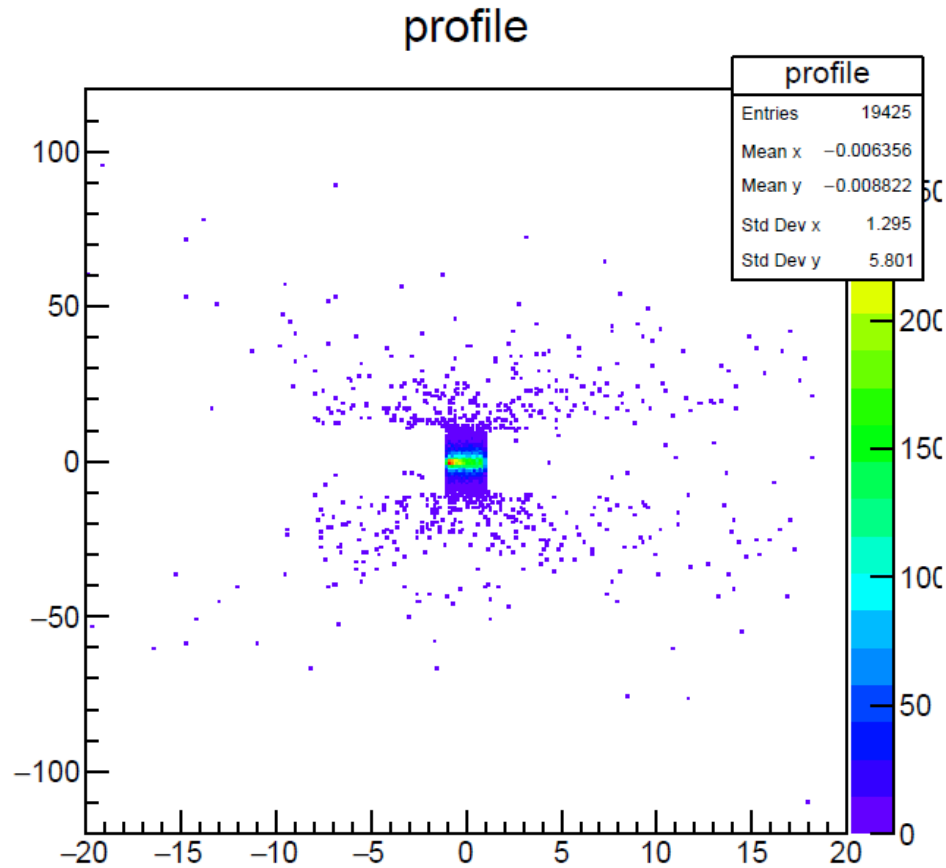
Positronium spread (study ongoing)



- (up) 2cm long target cavity
- (up right) 2cm target cavity with W block(2x2x4cm) btw detector and target
- (up right) 1cm target cavity with W block(2x2x4cm) btw detector and target

Slope of cosine spread and isotropic spread are different (with W block)

New target with target holder



Simulation test with different W block

