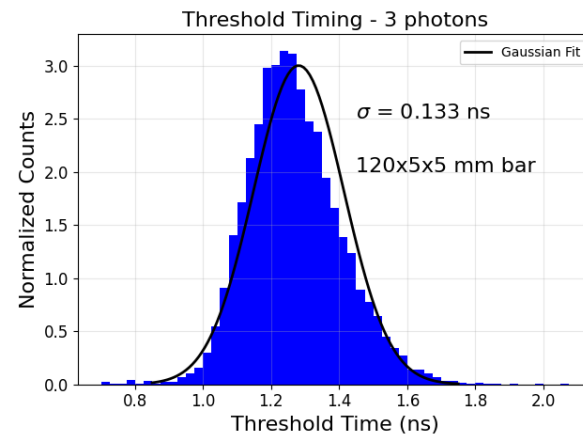
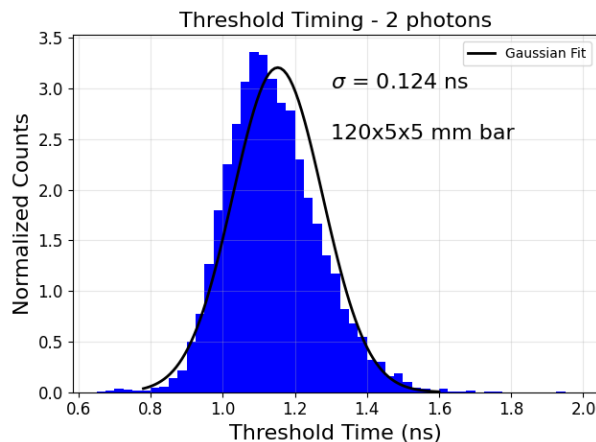
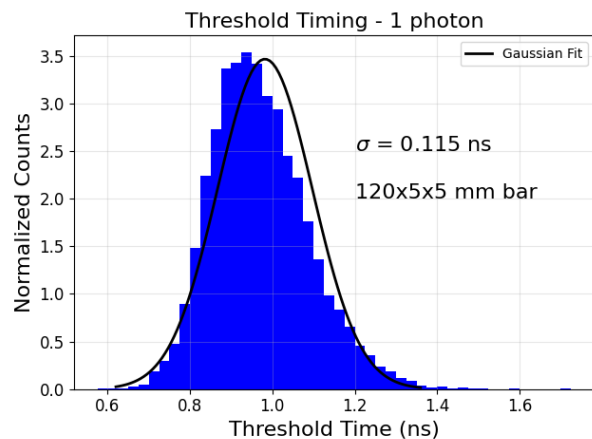
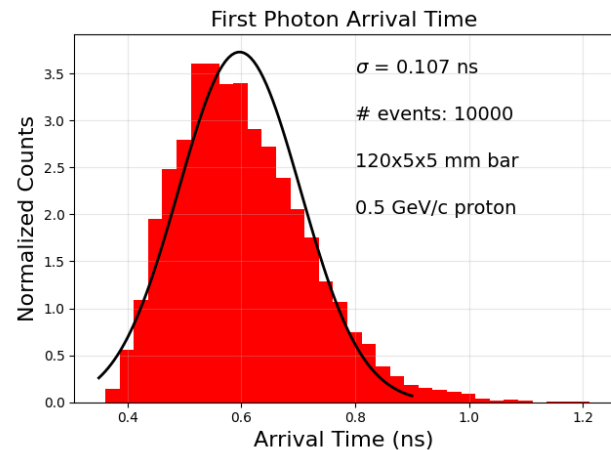
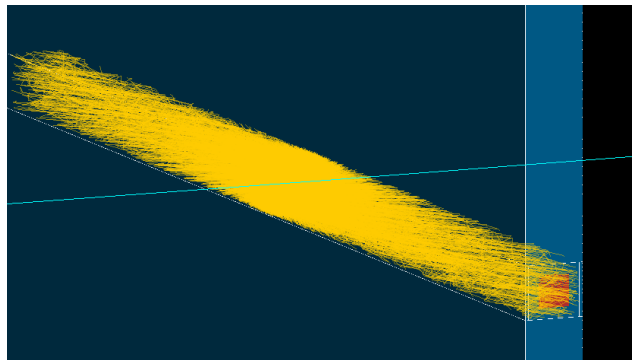


120 x 5 x 5 mm bar
3 mm x 3 mm sensor



Timing resolution results – 0.5 GeV/c

Bar dimensions L x W x H (mm)	First photon arrival time (ps)	Threshold timing 1 photon (ps)	Threshold timing 2 photons (ps)	Threshold timing 3 photons (ps)
170 x 5 x 5	126	143	152	166
120 x 5 x 5	107	115	124	133
50 x 5 x 5	61	67	69	73
120 x 10 x 5	103	115	121	130
50 x 10 x 5	61	68	70	74

Timing resolution results - Threshold timing, 1 photon

Bar dimensions L x W x H (mm)	Sensor covering cross section, scaled (ps)	3x3 mm sensor (ps)	PANDA resolution BC408 (ps)	PANDA resolution BC420 (ps)
170 x 5 x 5	145	143	97 +- 19	
120 x 5 x 5	117	115	81 +- 12	68 +- 10
50 x 5 x 5	72	67	83 +- 6	62 +- 5
120 x 10 x 5	117	115	105 +- 18	93 +- 25
50 x 10 x 5	74	68	109 +- 16	