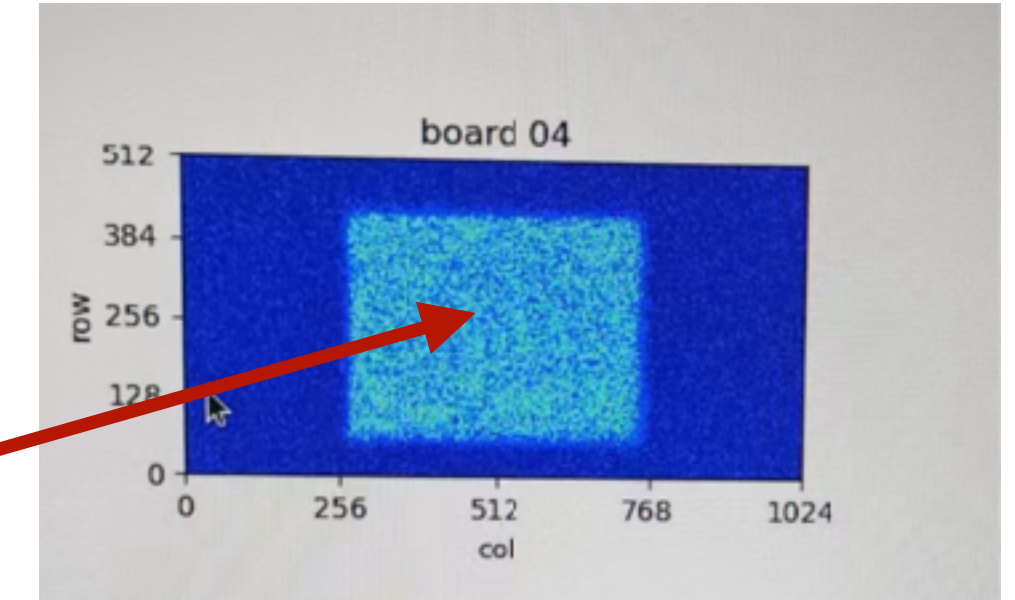
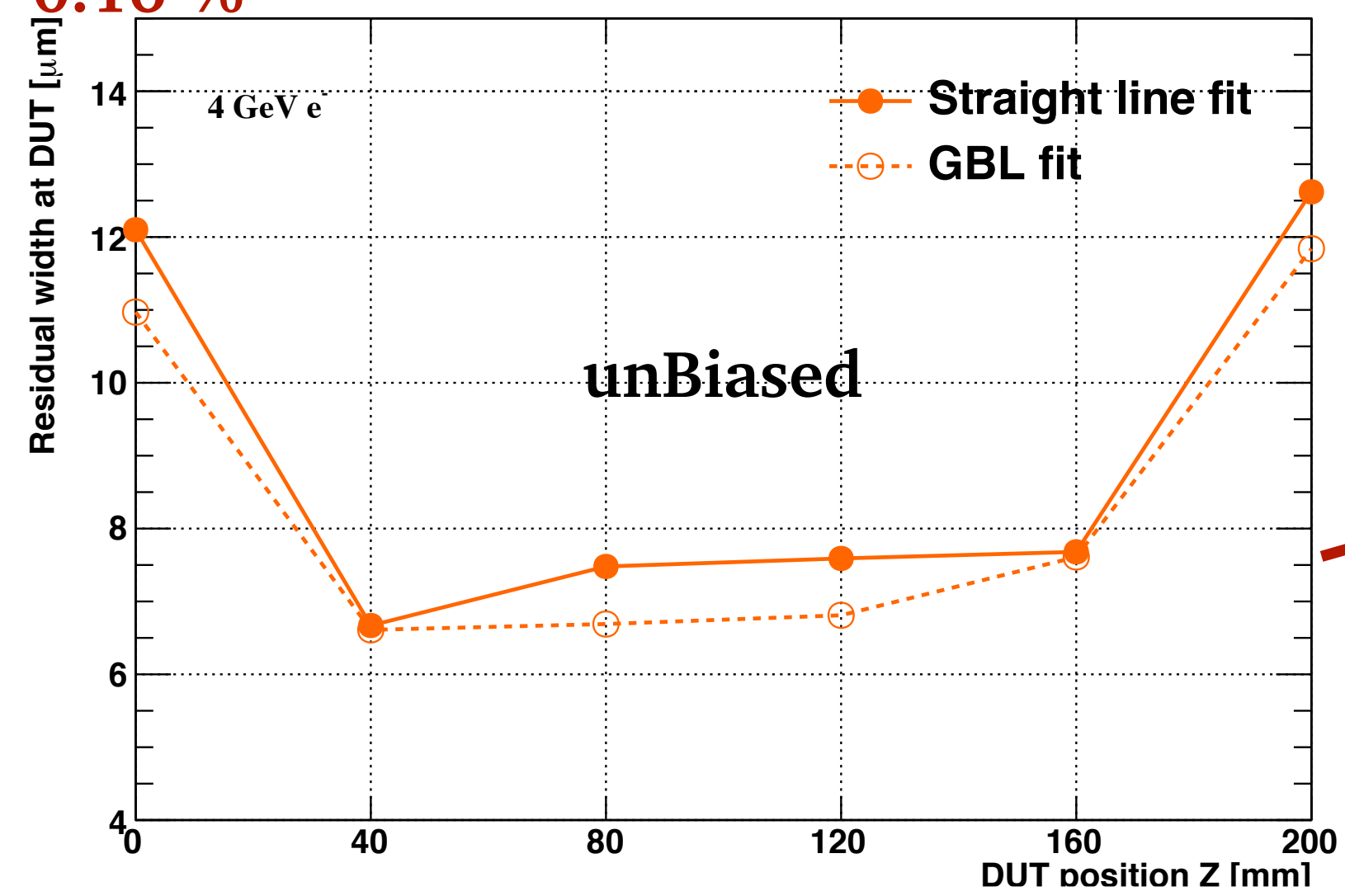
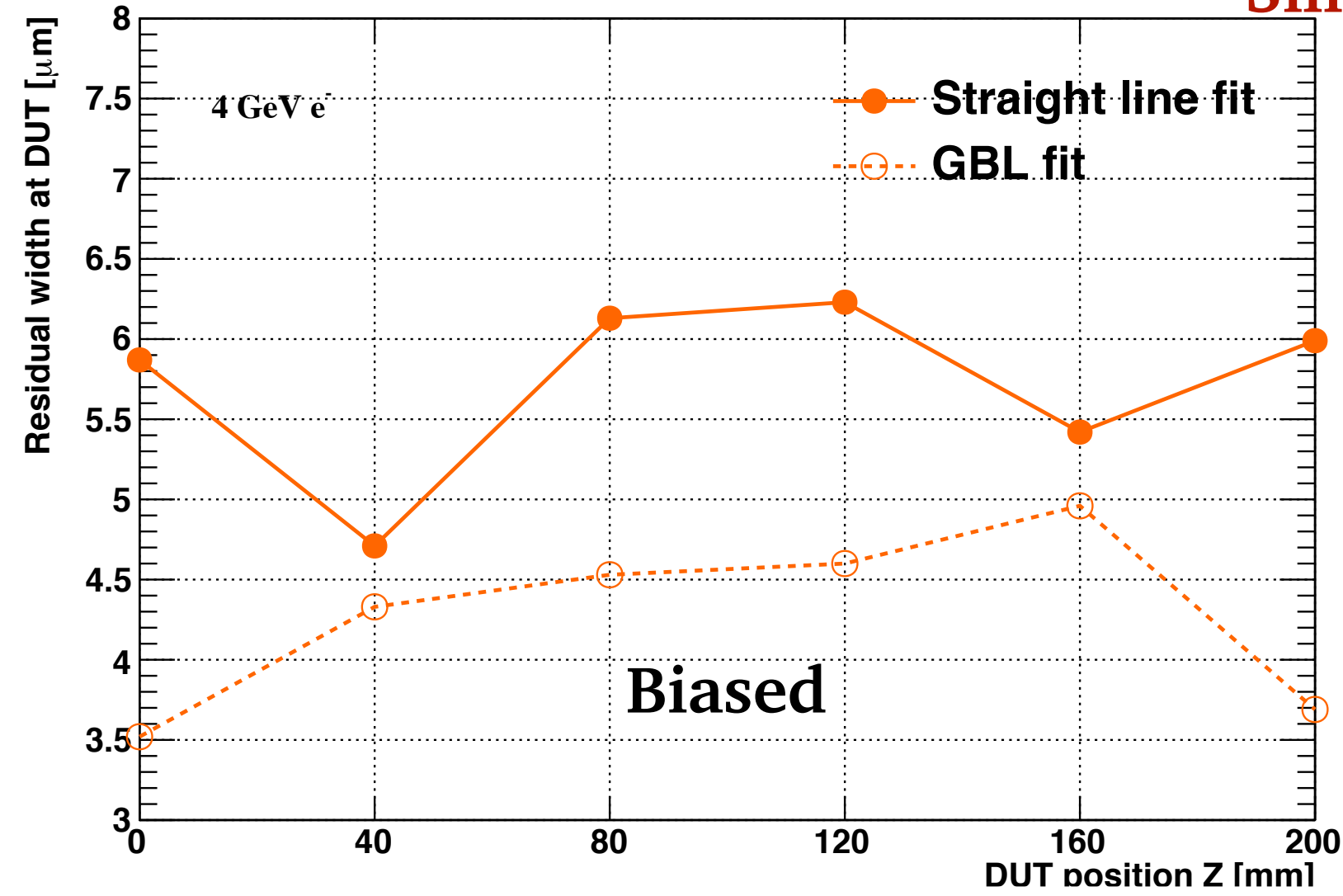
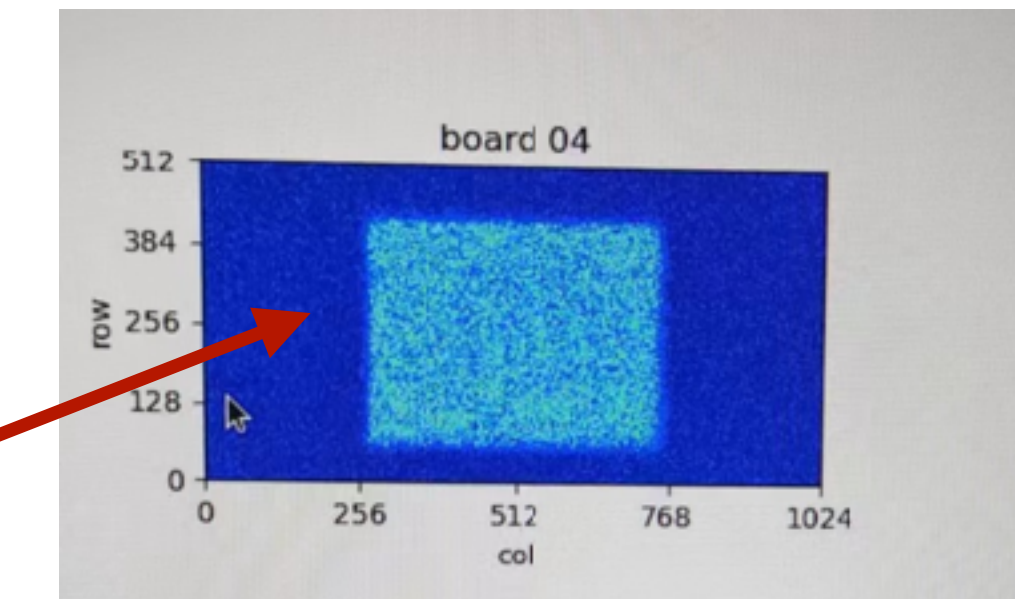
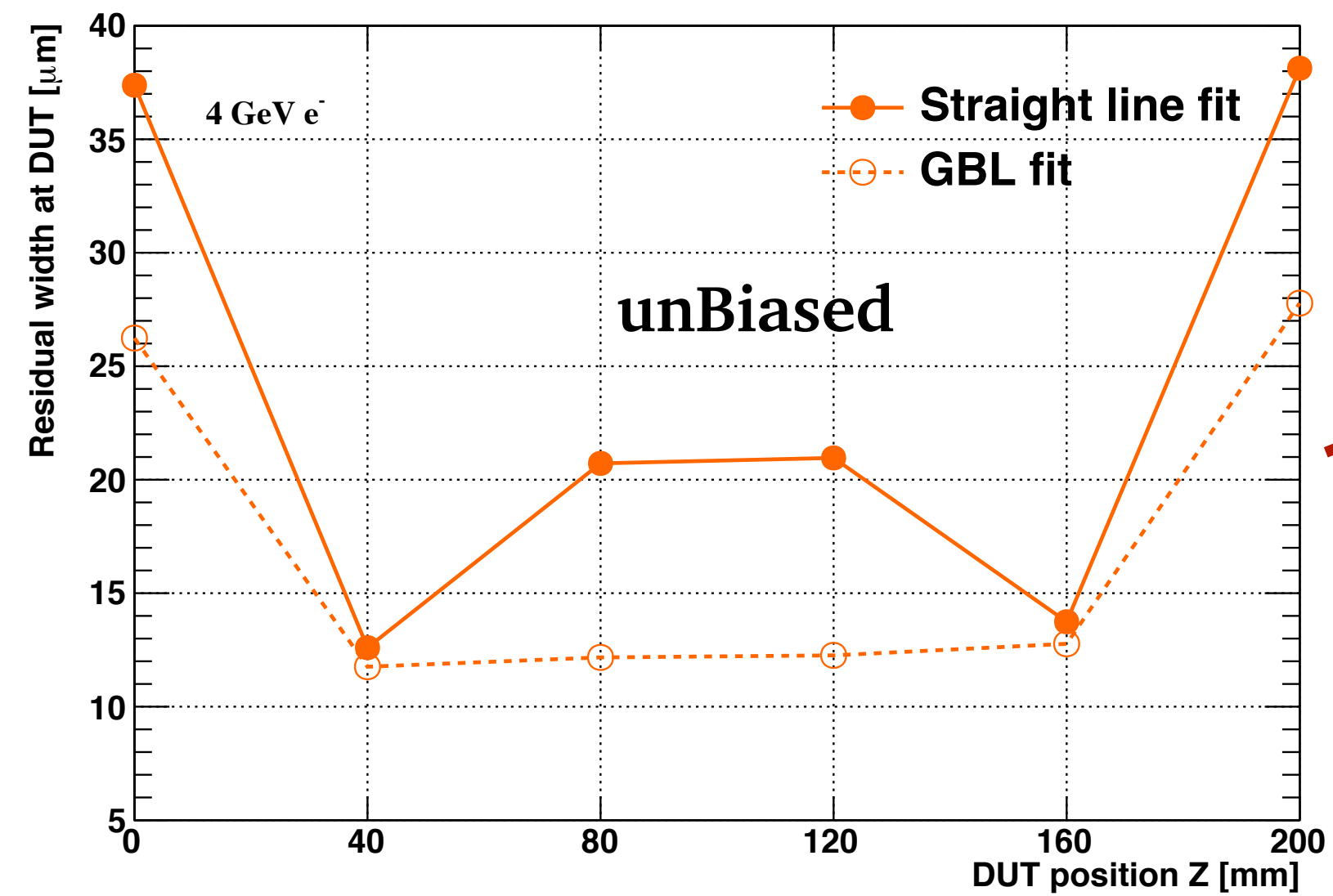
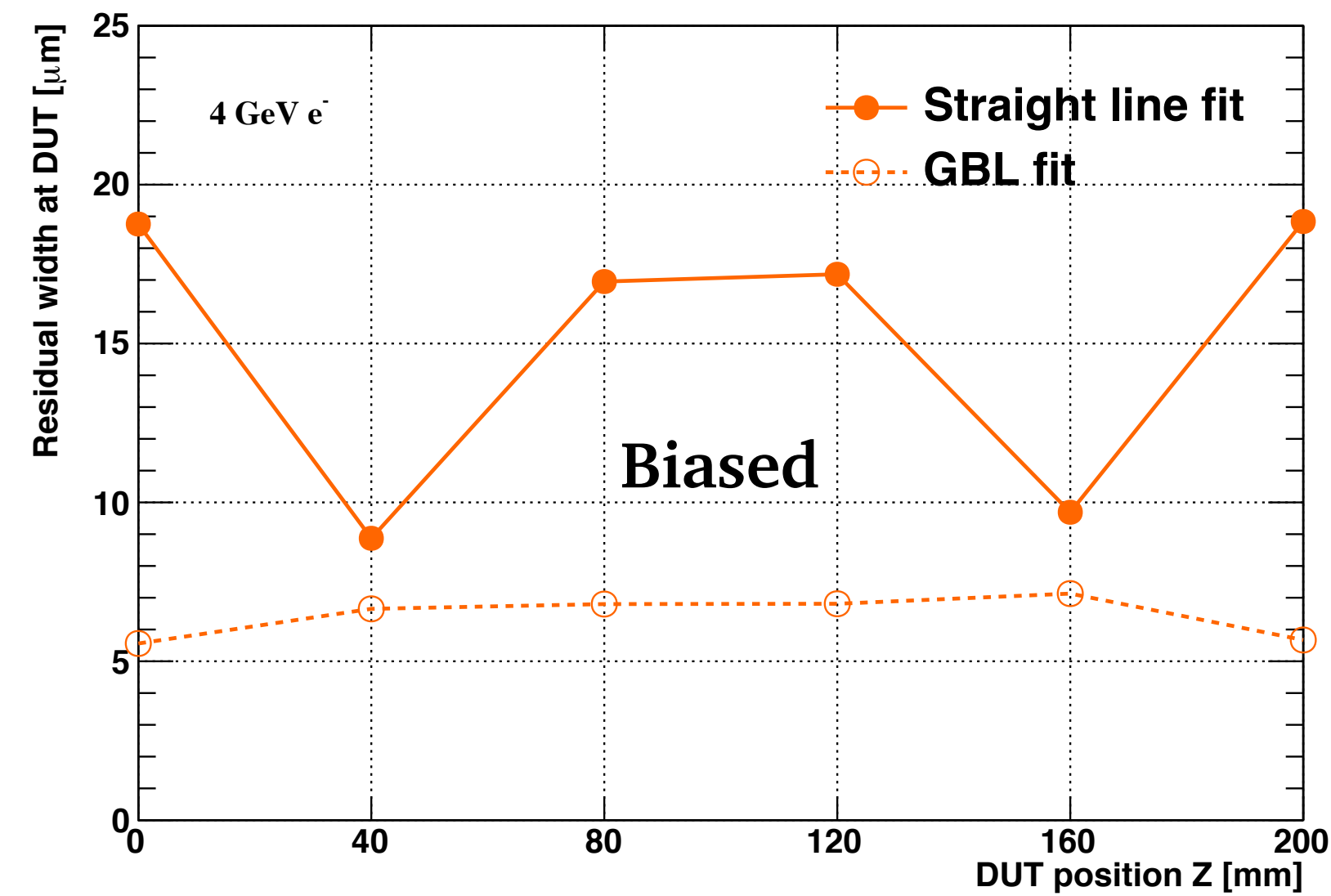


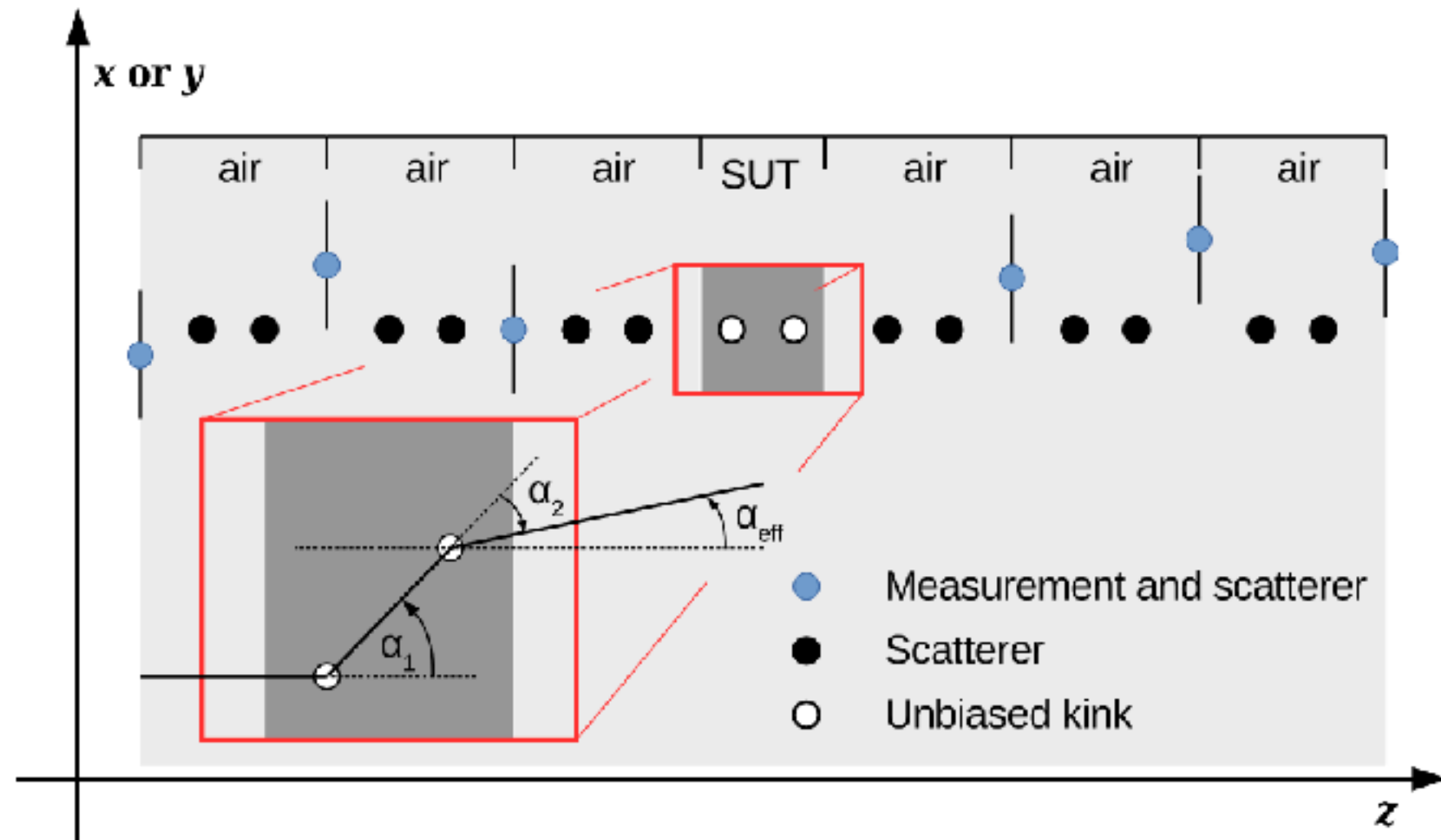
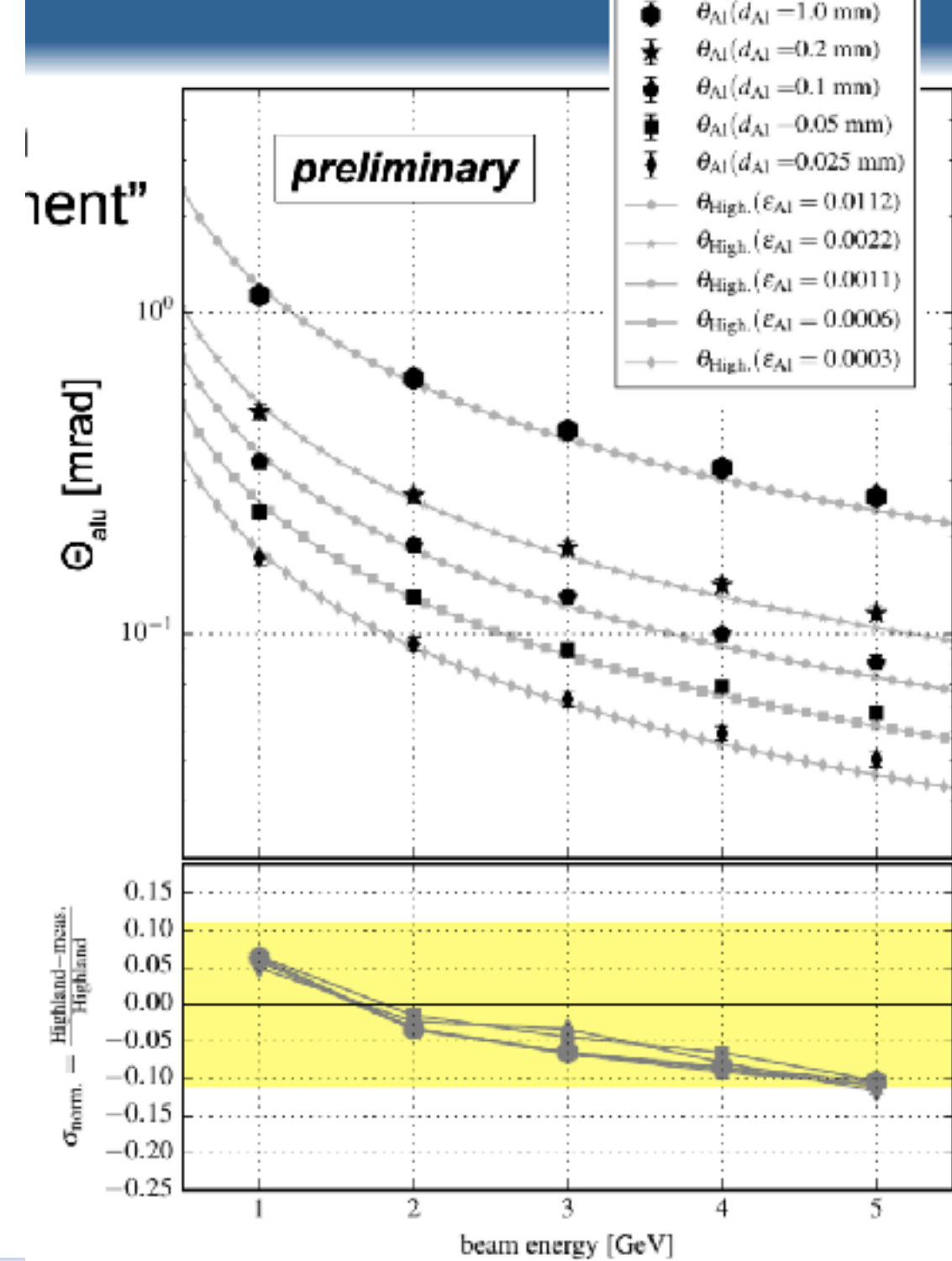
planeID	0 (std) thr = 16	1 (mod) thr = 64	2 (std) thr = 16	3 (mod) thr = 32	4 (std) thr = 96	5 (std) thr = 16
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Silicon:  $X/X_0 \sim 0.16\%$



PCB:  $X/X_0 \sim 0.5\%$



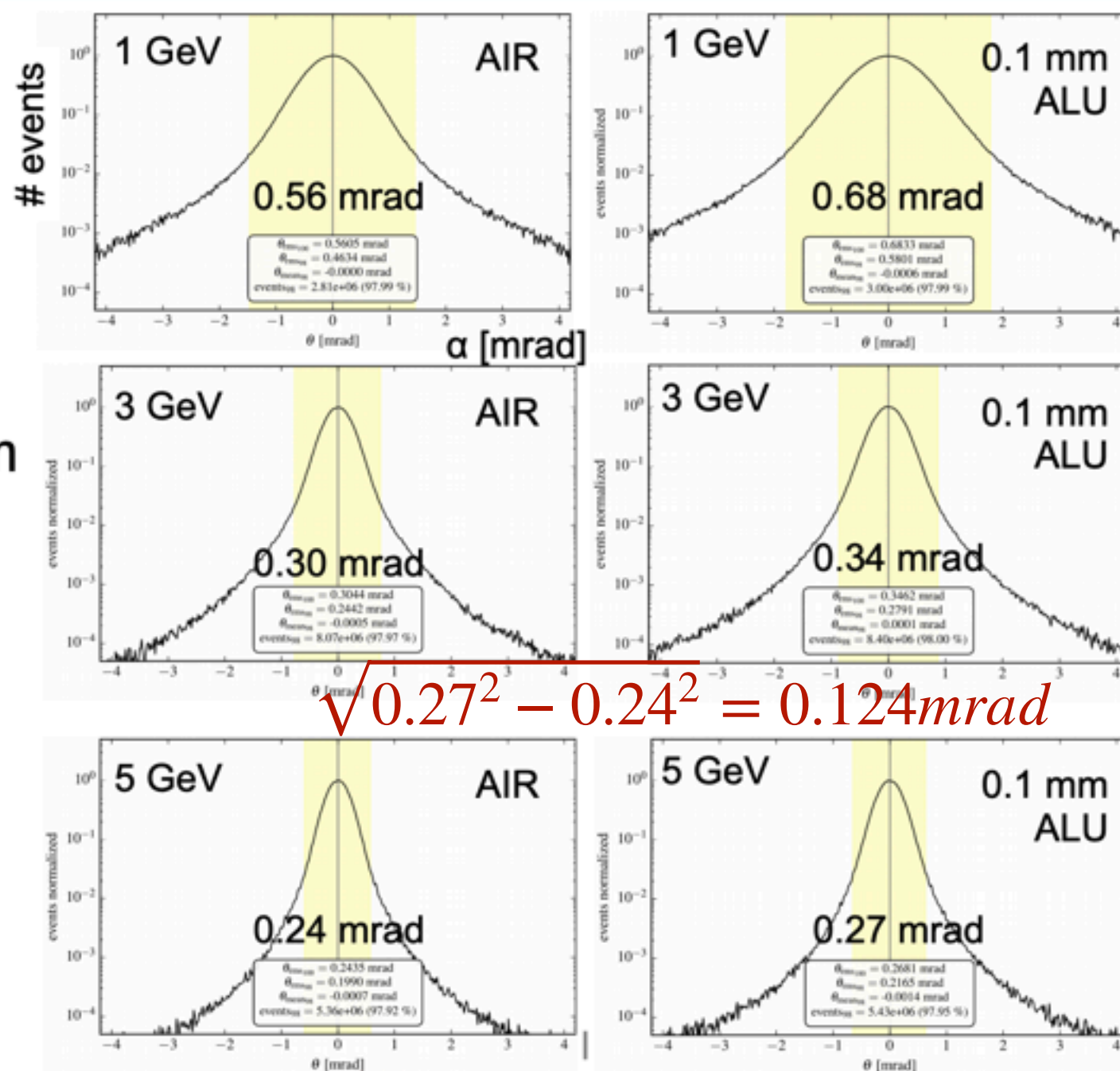


$$\Theta_0 = \left( \frac{13.6 \text{ MeV}}{\beta c p} \cdot z \right) \cdot \sqrt{\epsilon} \cdot (1 + 0.038 \ln \epsilon)$$

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- Si  $X/X_0 = 150 \text{ um} / 93.663 \text{ mm}$
- theoretical value:  $\theta \sim 0.1 \text{ mrad}$
- measured value:  $\sqrt{0.29^2 - 0.27^2} = 0.105 \text{ mrad}$

• Kink angle distribution for various energies



- Measurable difference for 100 um aluminium
- Clear energy-dependence
- Large statistics → populated tails

xdirection, ChipID = 2

xdirection, ChipID = 2

