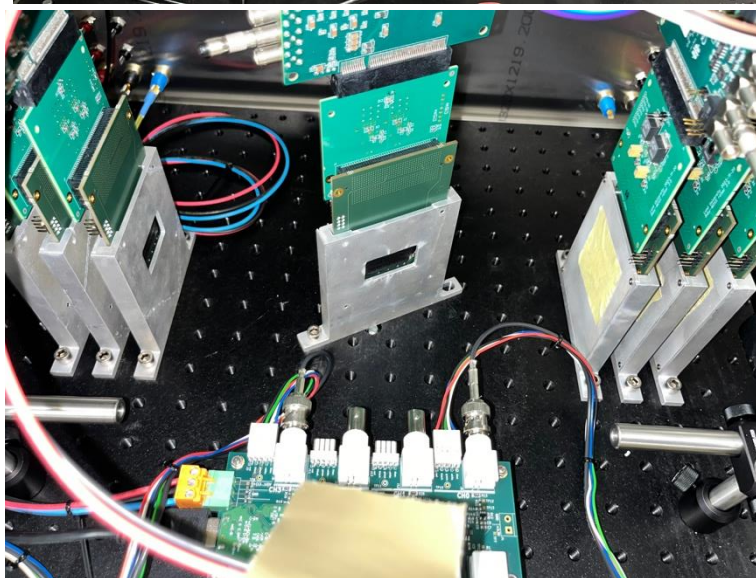
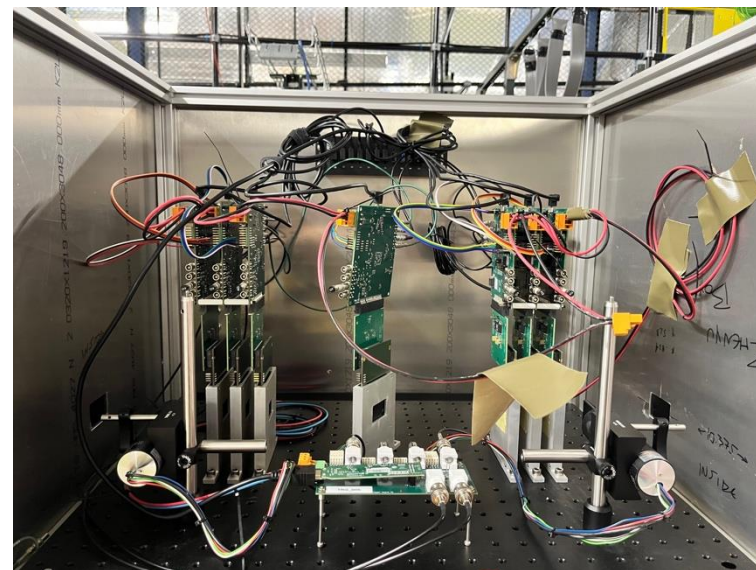
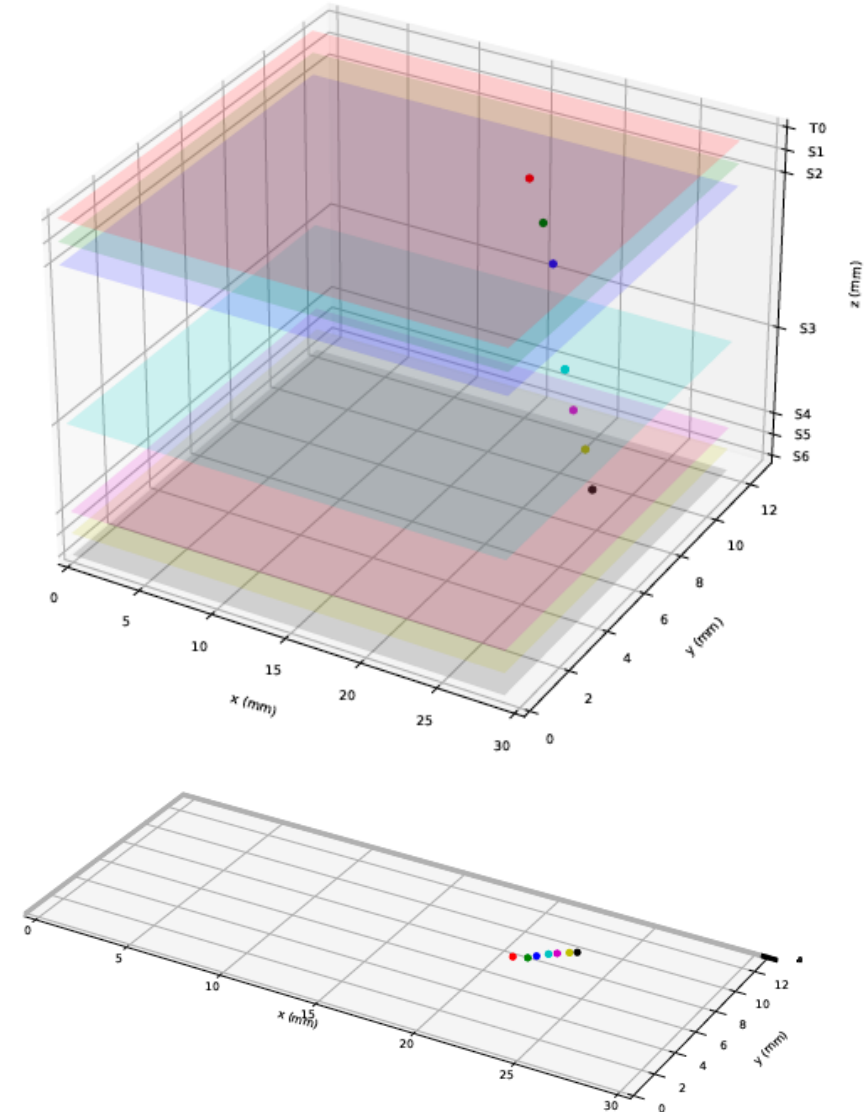


BabyMOSS Beam Tests at FTBF

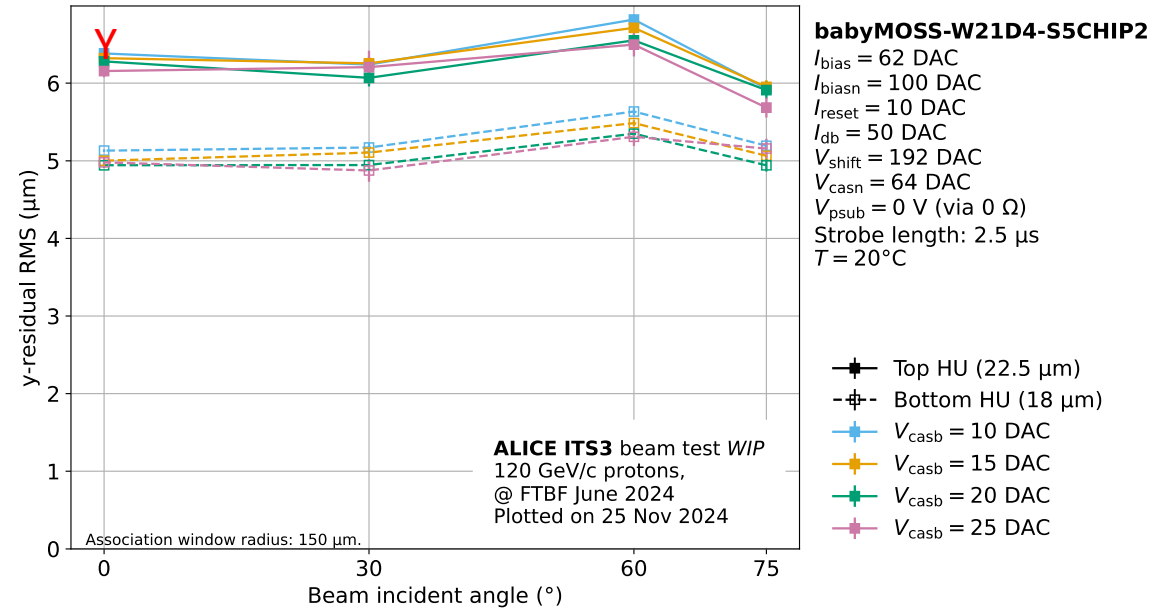
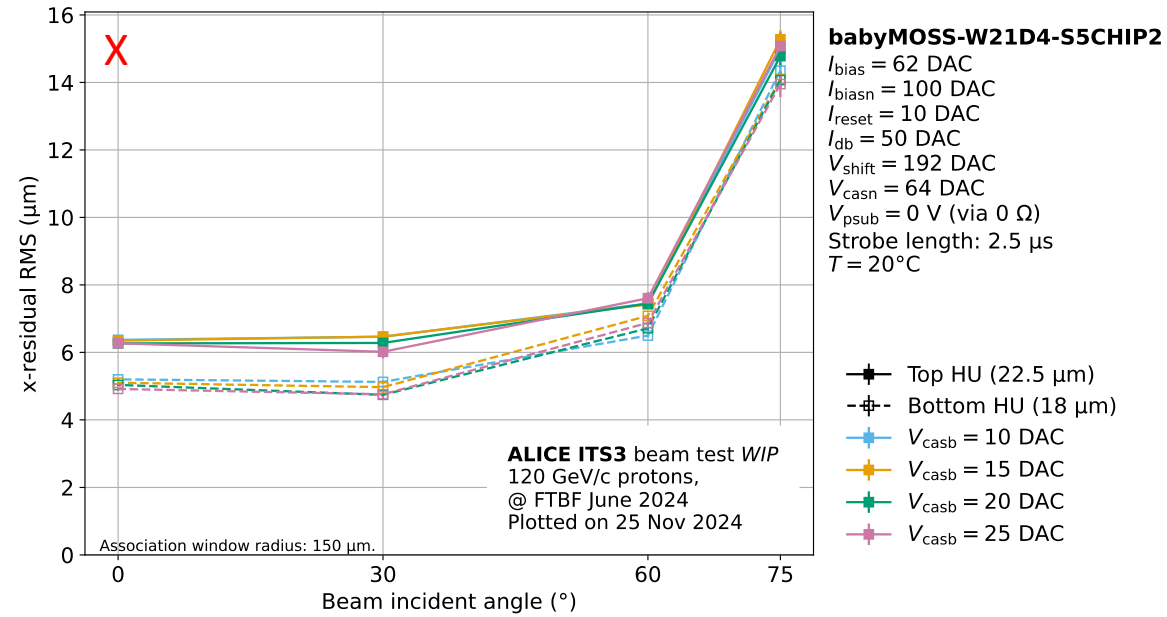
babyMOSS Telescope at Fermilab Test Beam Facility



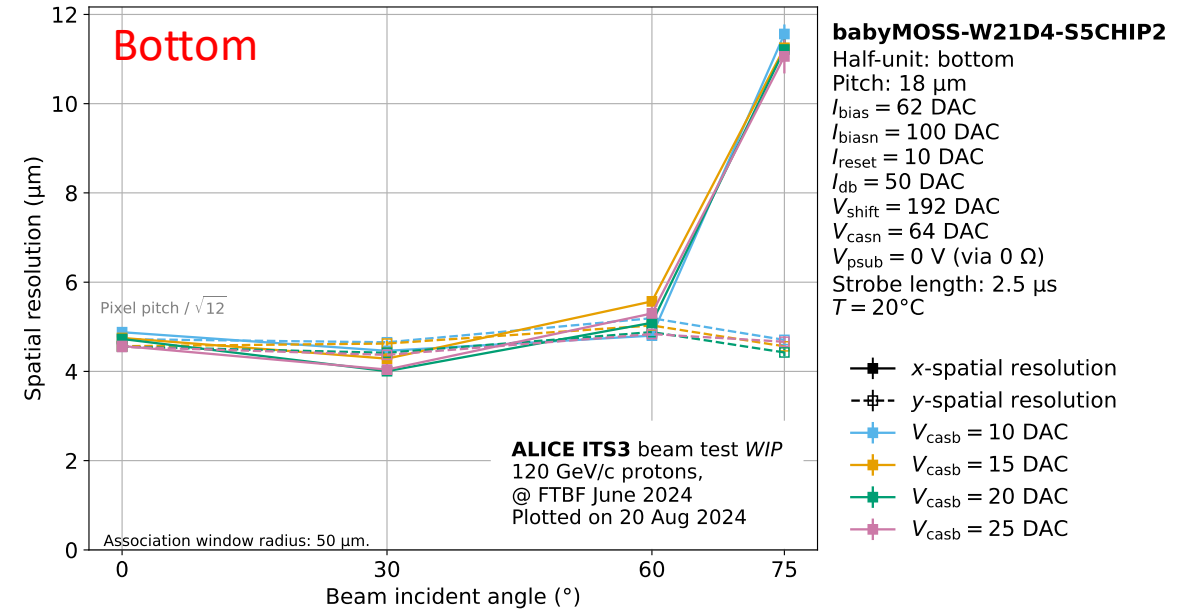
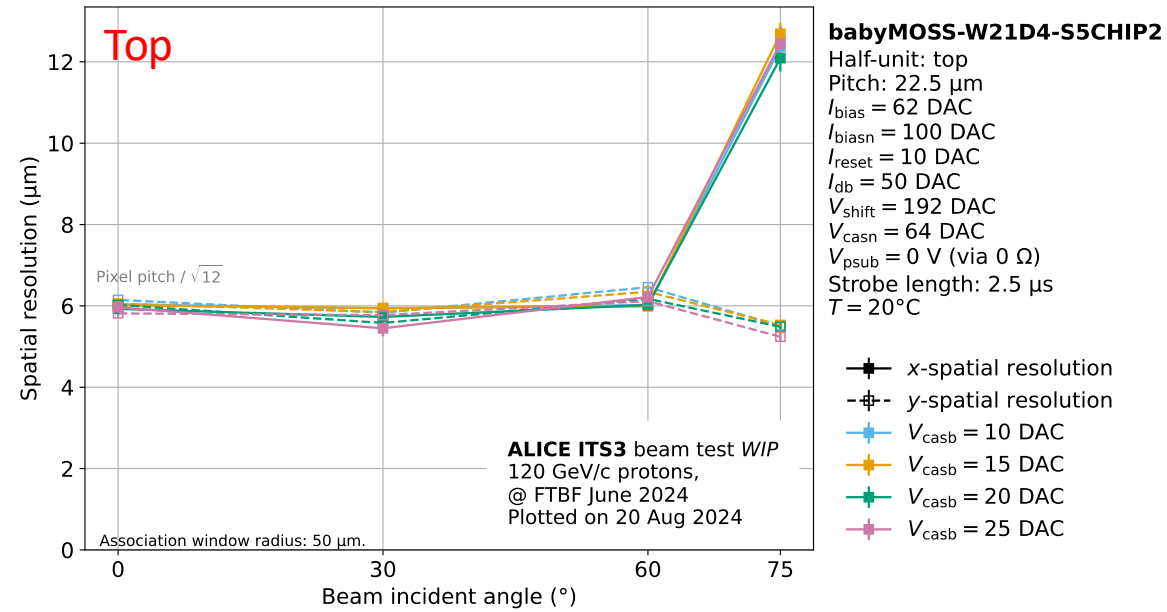
A 120 GeV proton beam event



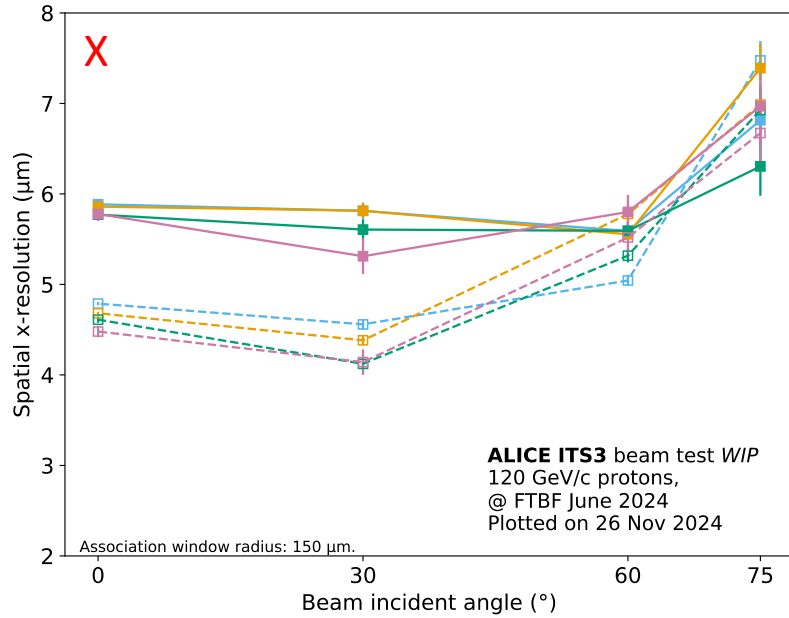
Residual = Tracking + Hit Resolution + Multiple Scattering



Hit Resolution + Multiple-Scattering



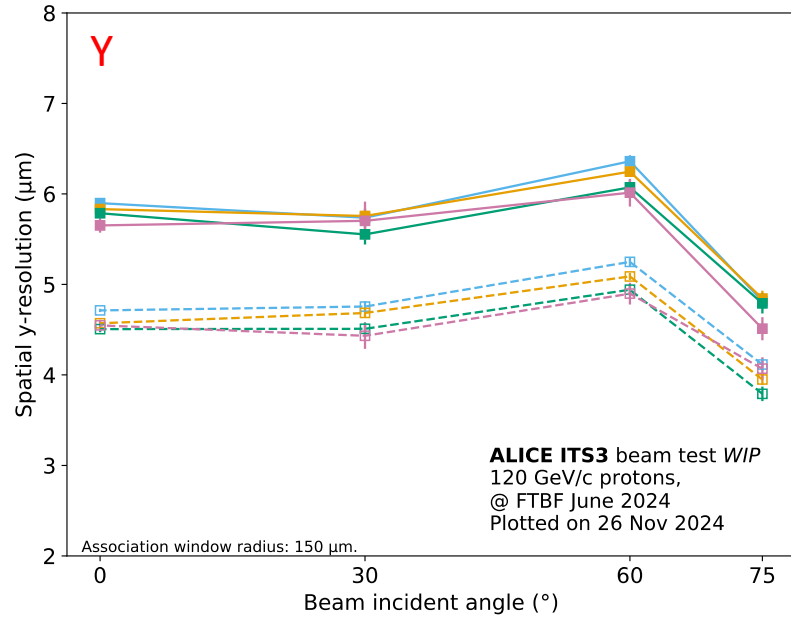
Hit Resolution



babyMOSS-W21D4-S5CHIP2

$I_{\text{bias}} = 62 \text{ DAC}$
 $I_{\text{biasn}} = 100 \text{ DAC}$
 $I_{\text{reset}} = 10 \text{ DAC}$
 $I_{\text{db}} = 50 \text{ DAC}$
 $V_{\text{shift}} = 192 \text{ DAC}$
 $V_{\text{casn}} = 64 \text{ DAC}$
 $V_{\text{psub}} = 0 \text{ V (via } 0 \Omega)$
 Strobe length: $2.5 \mu\text{s}$
 $T = 20^\circ\text{C}$

- Top binary resolution
- Bot binary resolution
- Top HU ($22.5 \mu\text{m}$)
- Bottom HU ($18 \mu\text{m}$)
- $V_{\text{casb}} = 10 \text{ DAC}$
- $V_{\text{casb}} = 15 \text{ DAC}$
- $V_{\text{casb}} = 20 \text{ DAC}$
- $V_{\text{casb}} = 25 \text{ DAC}$



babyMOSS-W21D4-S5CHIP2

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