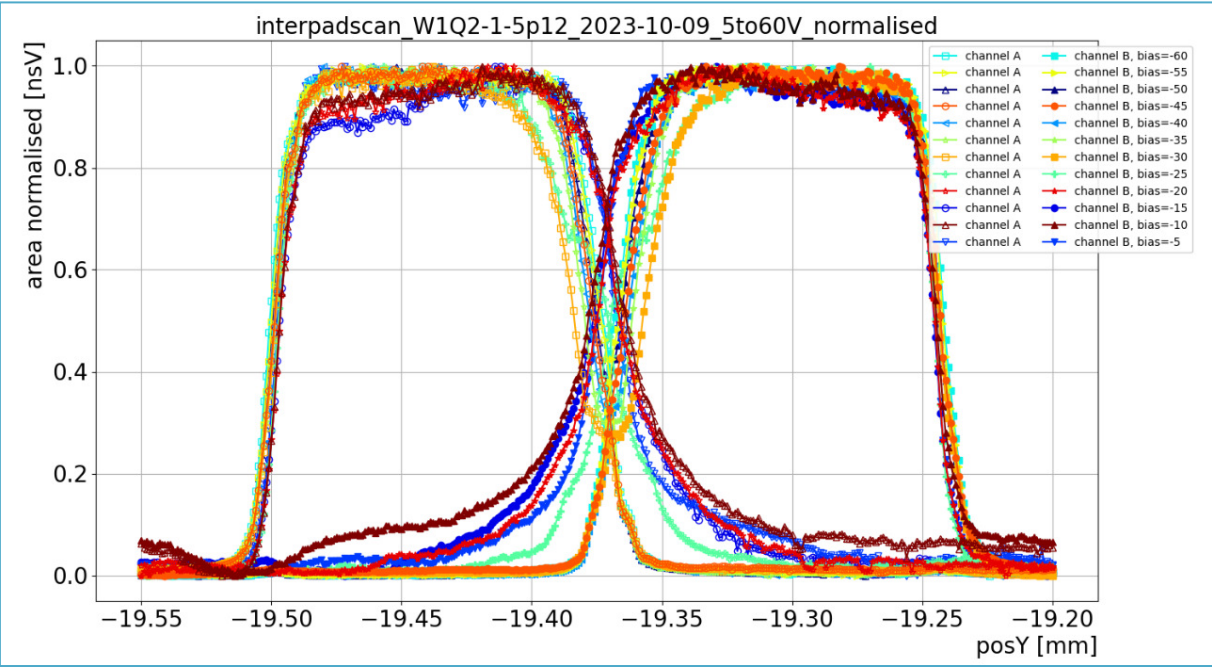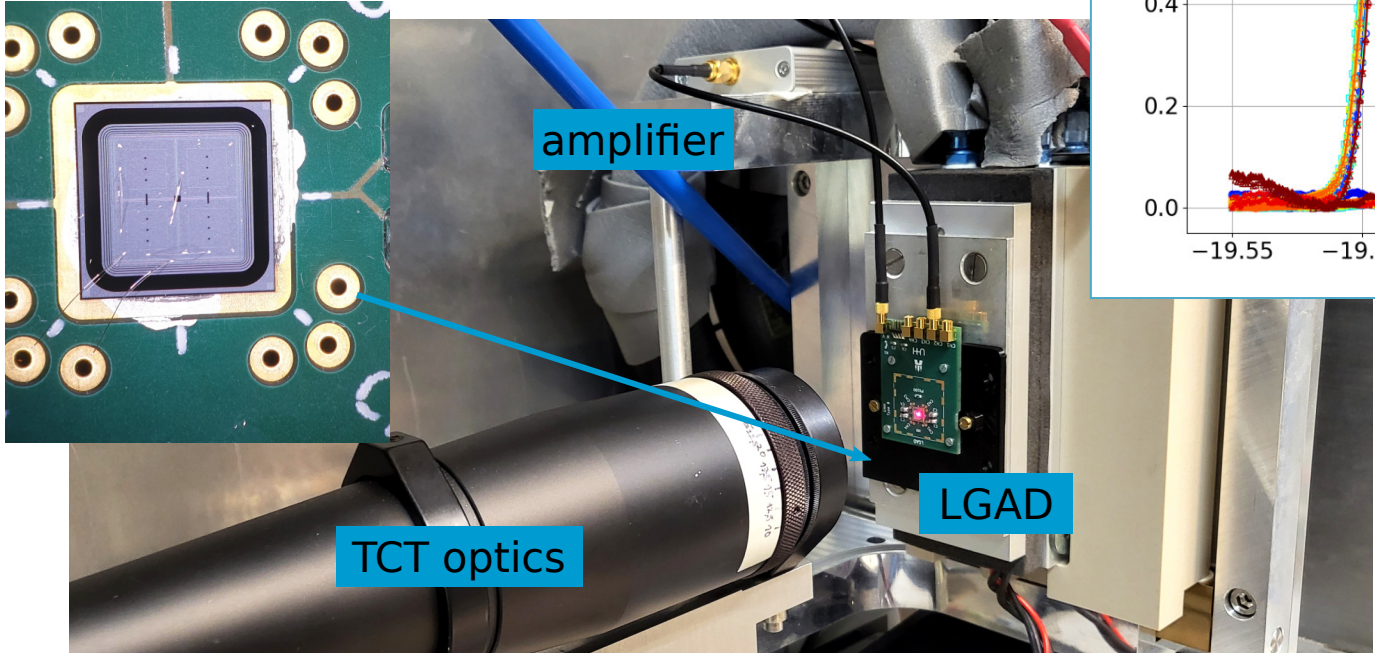# LGAD Sample Characterisation

Trench-Isolated LGAD samples (FBK)

Laser measurements of 1300 µm test samples

Use existing UHH TCT setup

2x2 LGAD

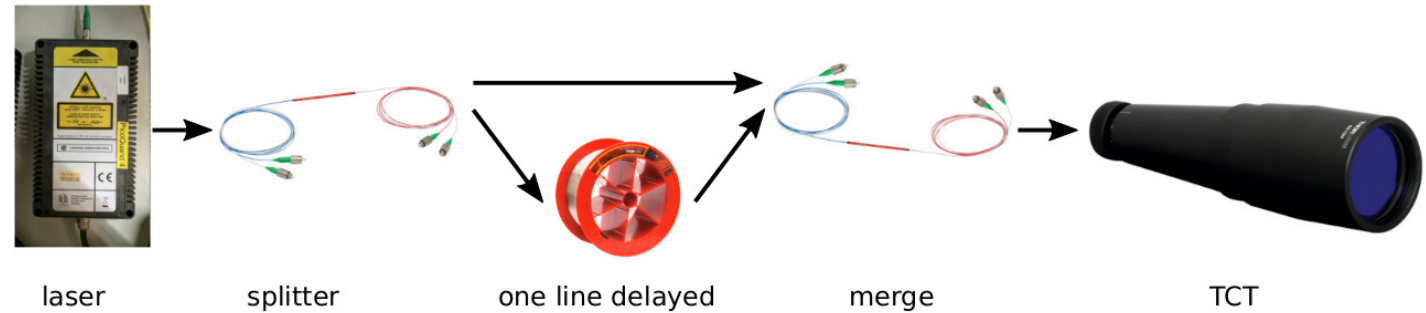amplifier

LGAD

TCT optics

interpadscan_W1Q2-1-5p12_2023-10-09_5to60V_normalised

example: interpad scan at different bias

Annika Vauth, SiDet meeting 19.12.2023

CLUSTER OF EXCELLENCE

QUANTUM UNIVERSE

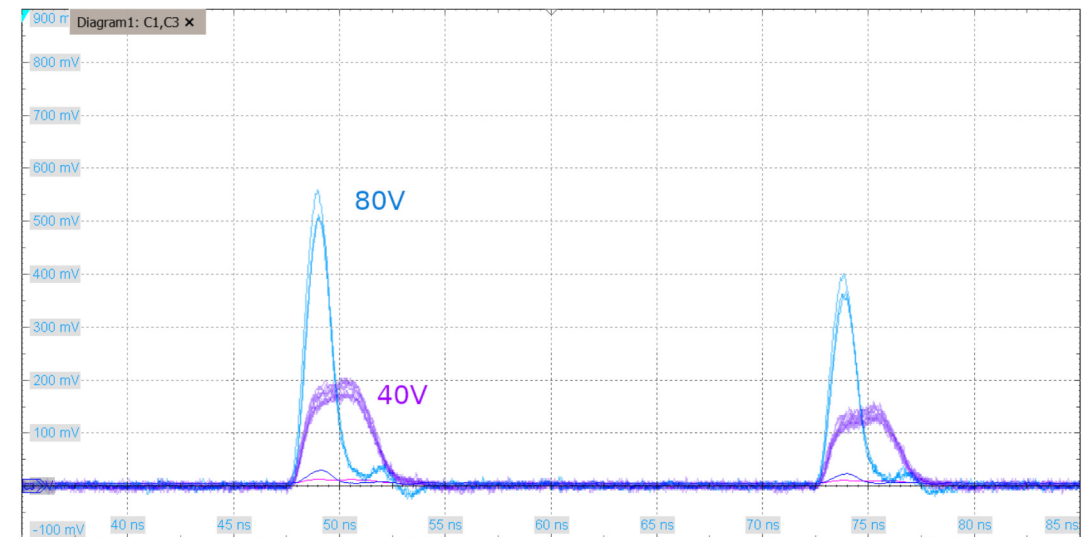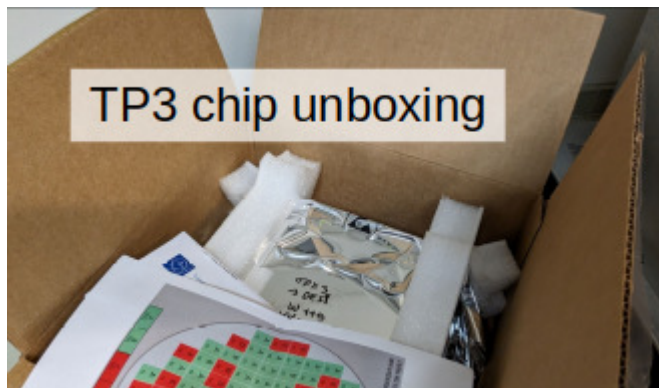# LGAD Sample Characterisation (2)

Latest addition:
splitter/delay setup for 1030nm

"50:50" splitter, 5m delay fiber
→ 25ns between light pulses

laser   splitter   one line delayed   merge   TCT

Long-term plan:
55 μm pixel samples on Timepix(3)

TP3 chip unboxing

example: laser signal at two different bias

Annika Vauth, SiDet meeting 19.12.2023