EMCM Irradiation

University of Göttingen
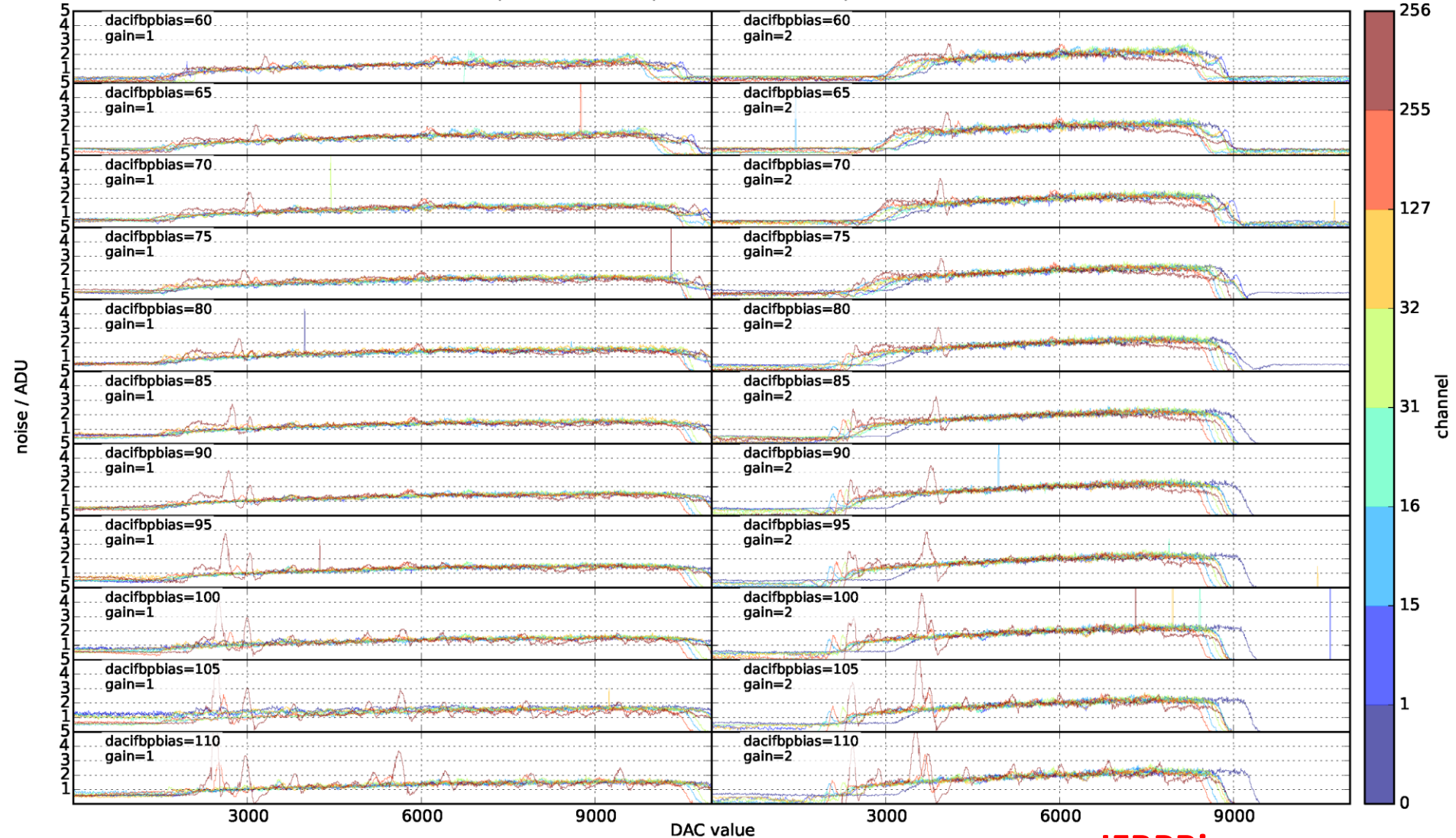University of Bonn
MPI
HLL

Scans – Precharacterization (8 ch)
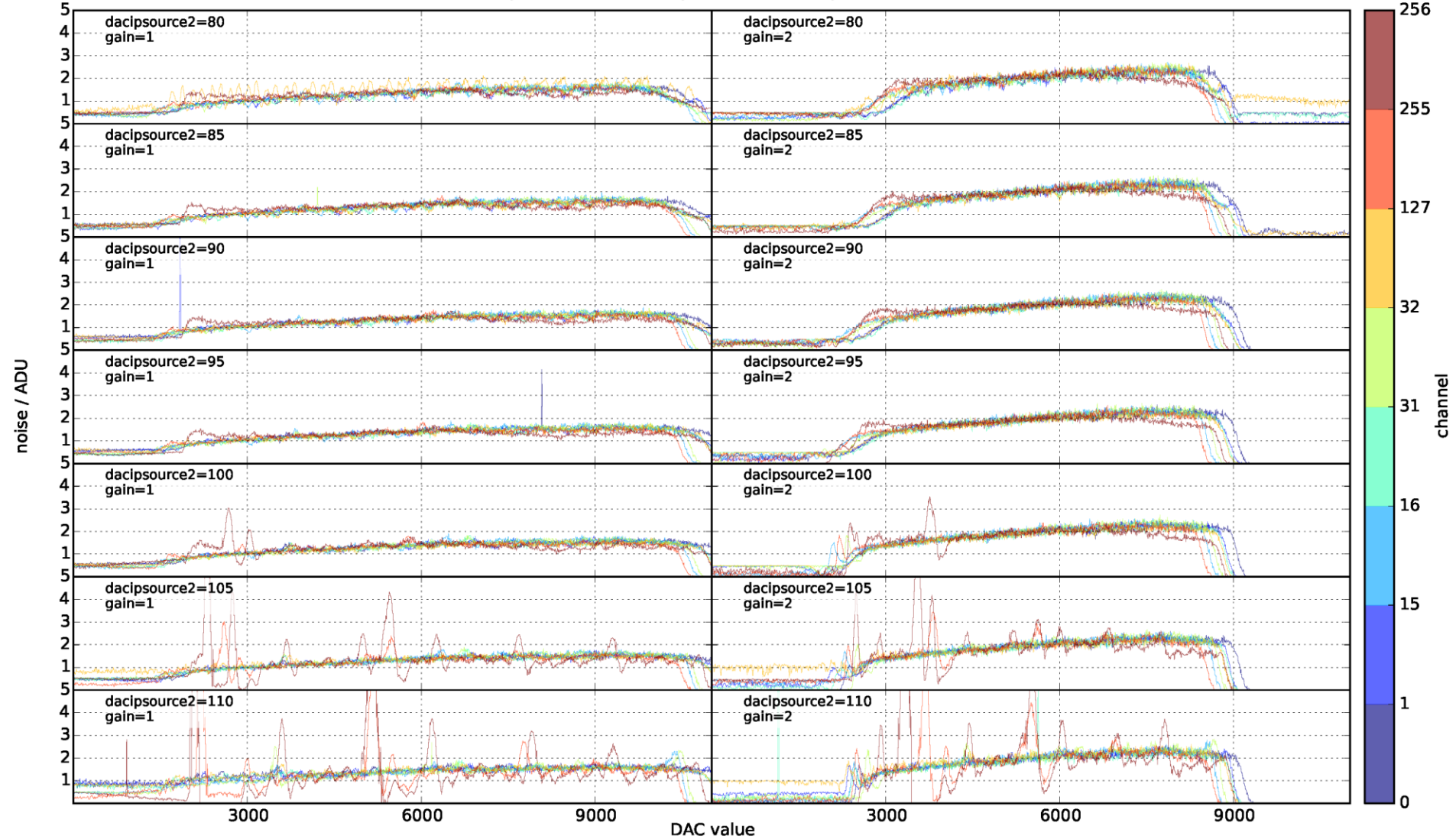

noise (dacipsource=105, dacipsource2=100, dcd-amplow=450, dcd-refin=800)
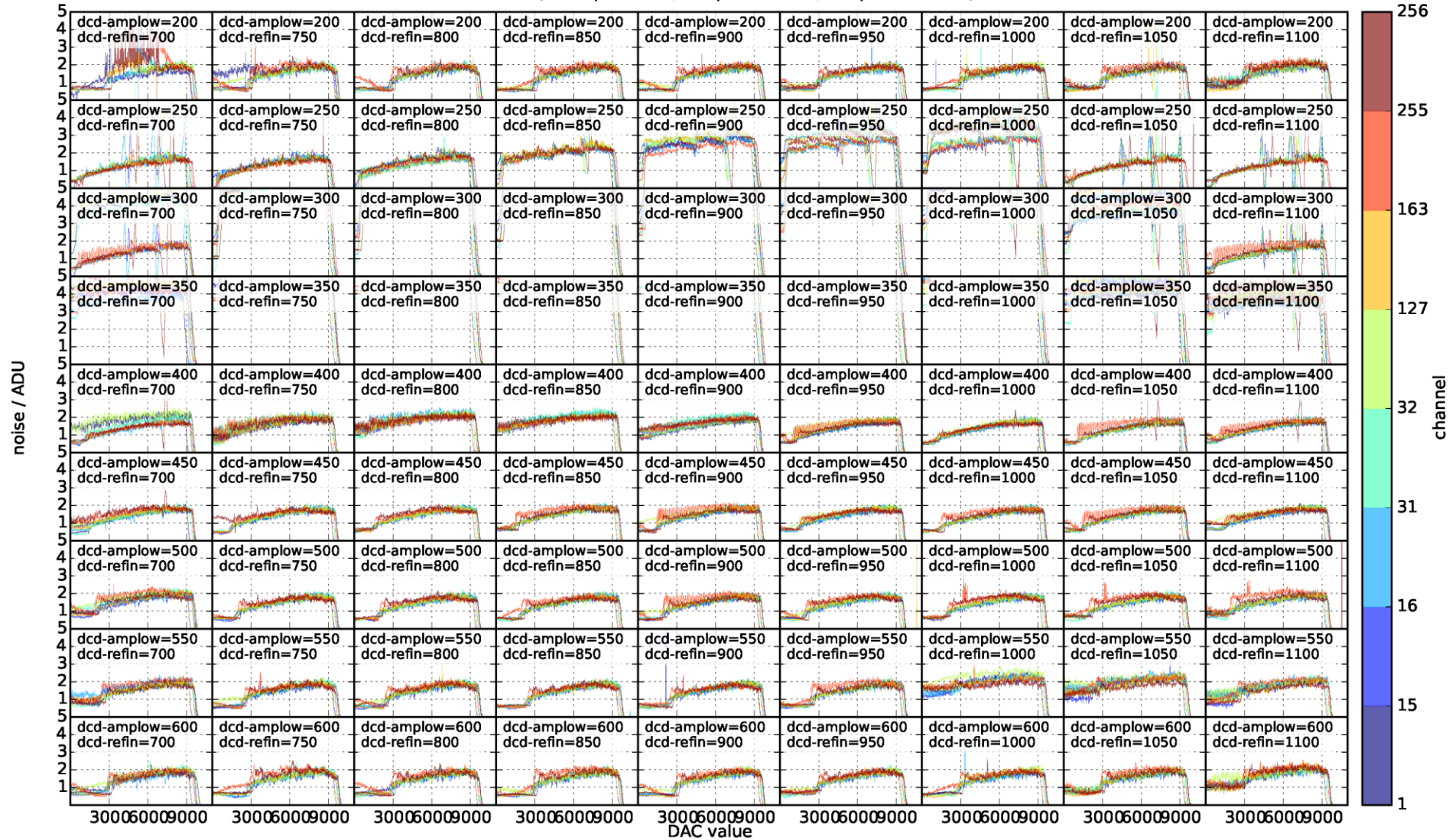
IFBPBias

Scans – Precharacterization (8 ch)

noise, dacipsource=105 (dacifbpbias=90, dcd-amplow=450, dcd-refin=800)
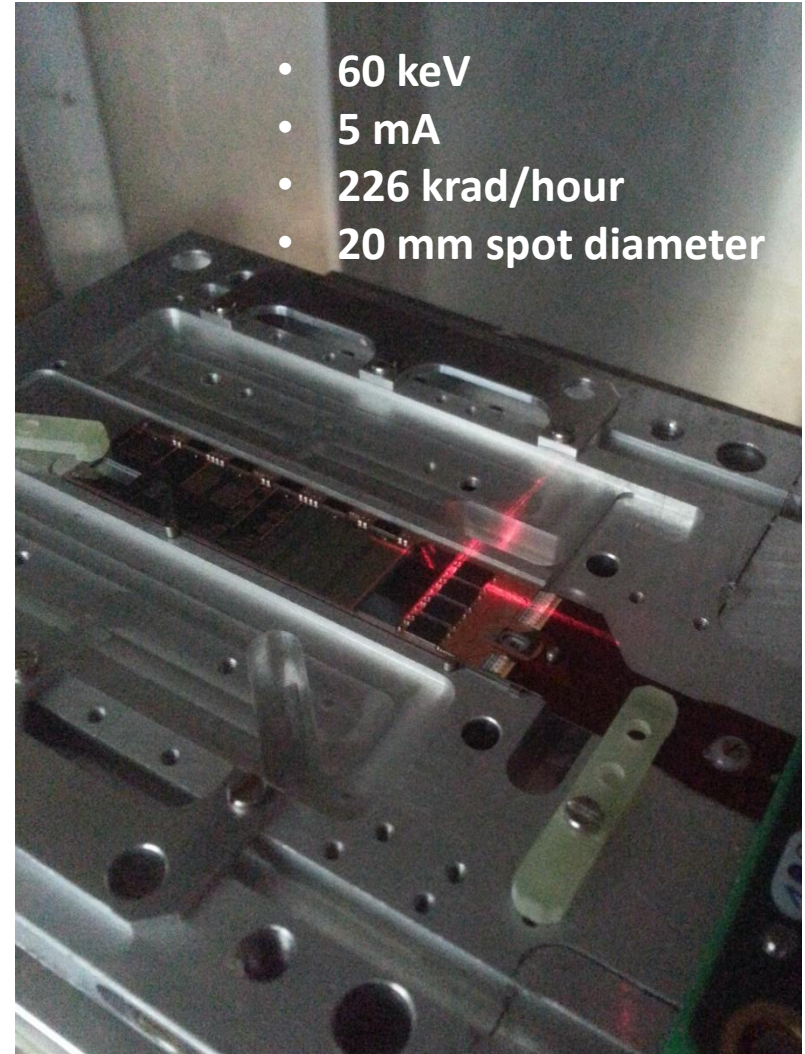
IPSource and IPSource 2

Scans – Precharacterization (8 ch)

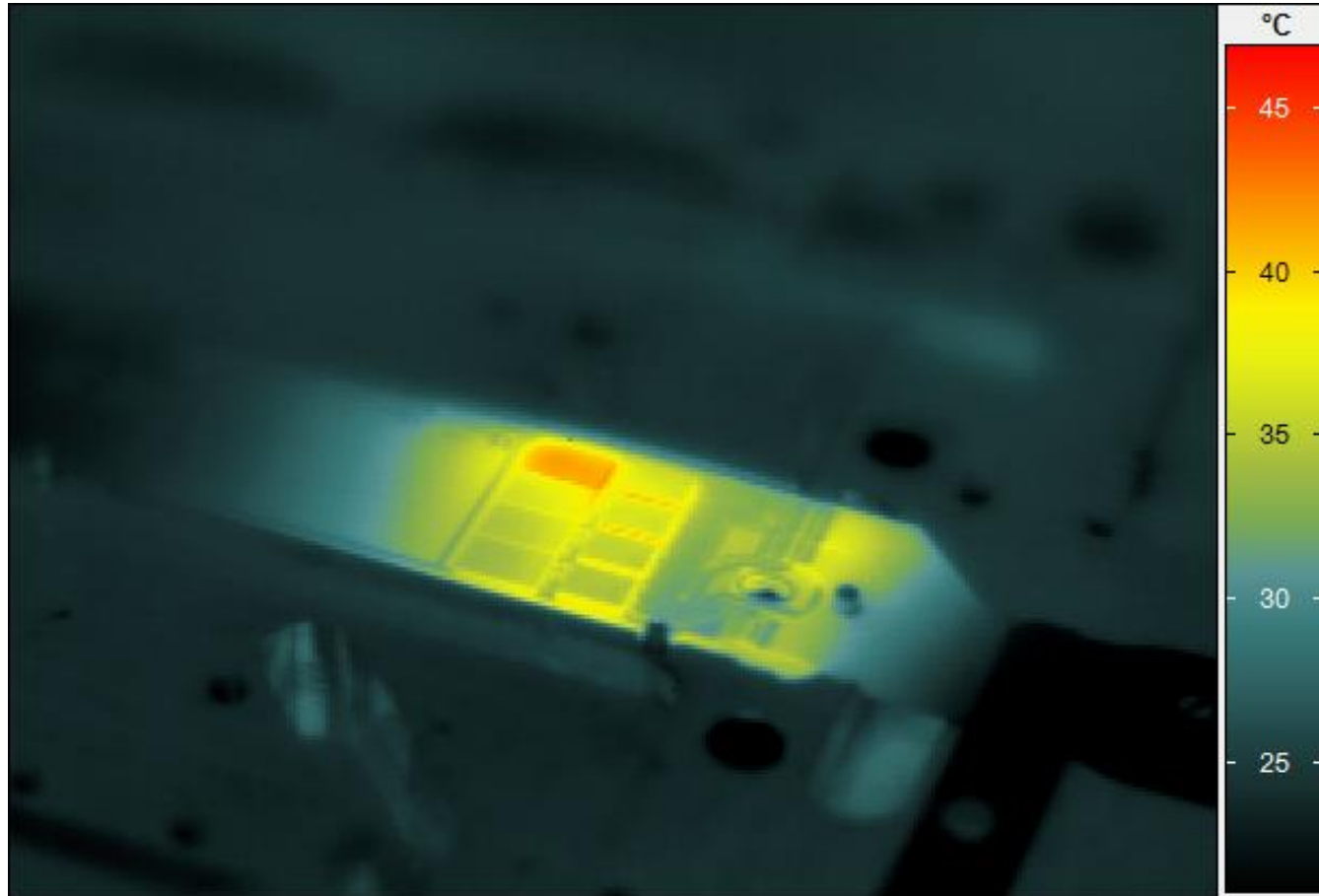noise (dacifbpbias=85, dacipsource=85, dacipsource2=80)
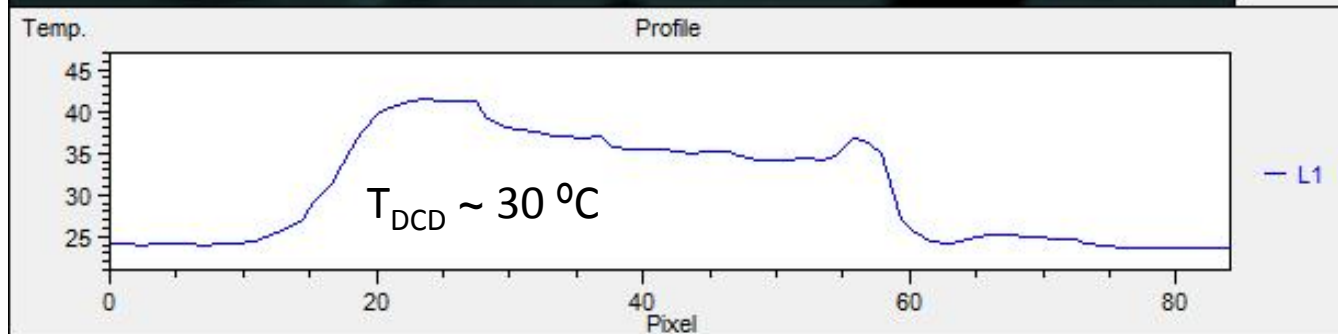
RefIn and AmpLow

Set Up

- 60 keV
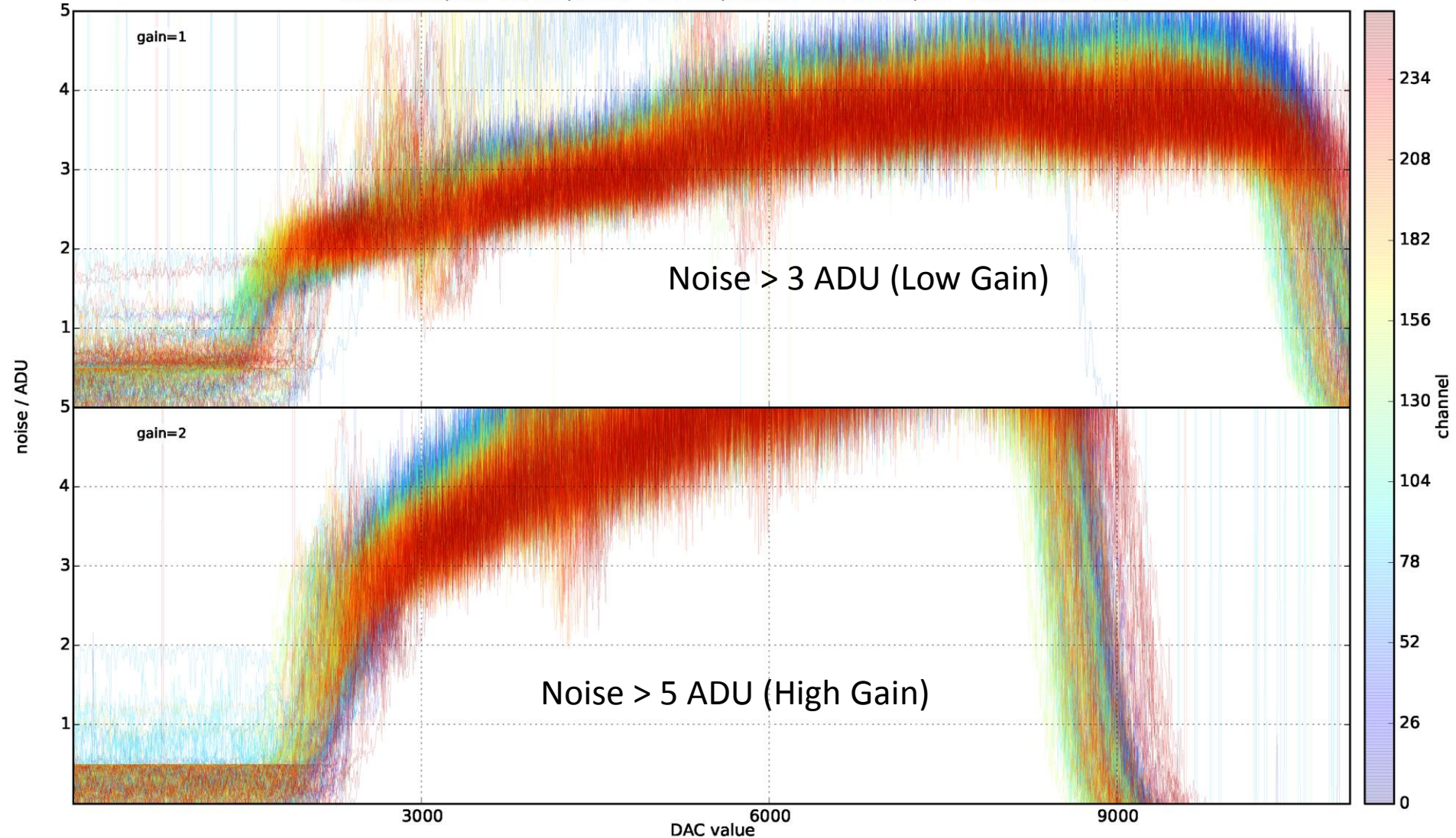- 5 mA
- 226 krad/hour
- 20 mm spot diameter

One DCD-DHP Pair
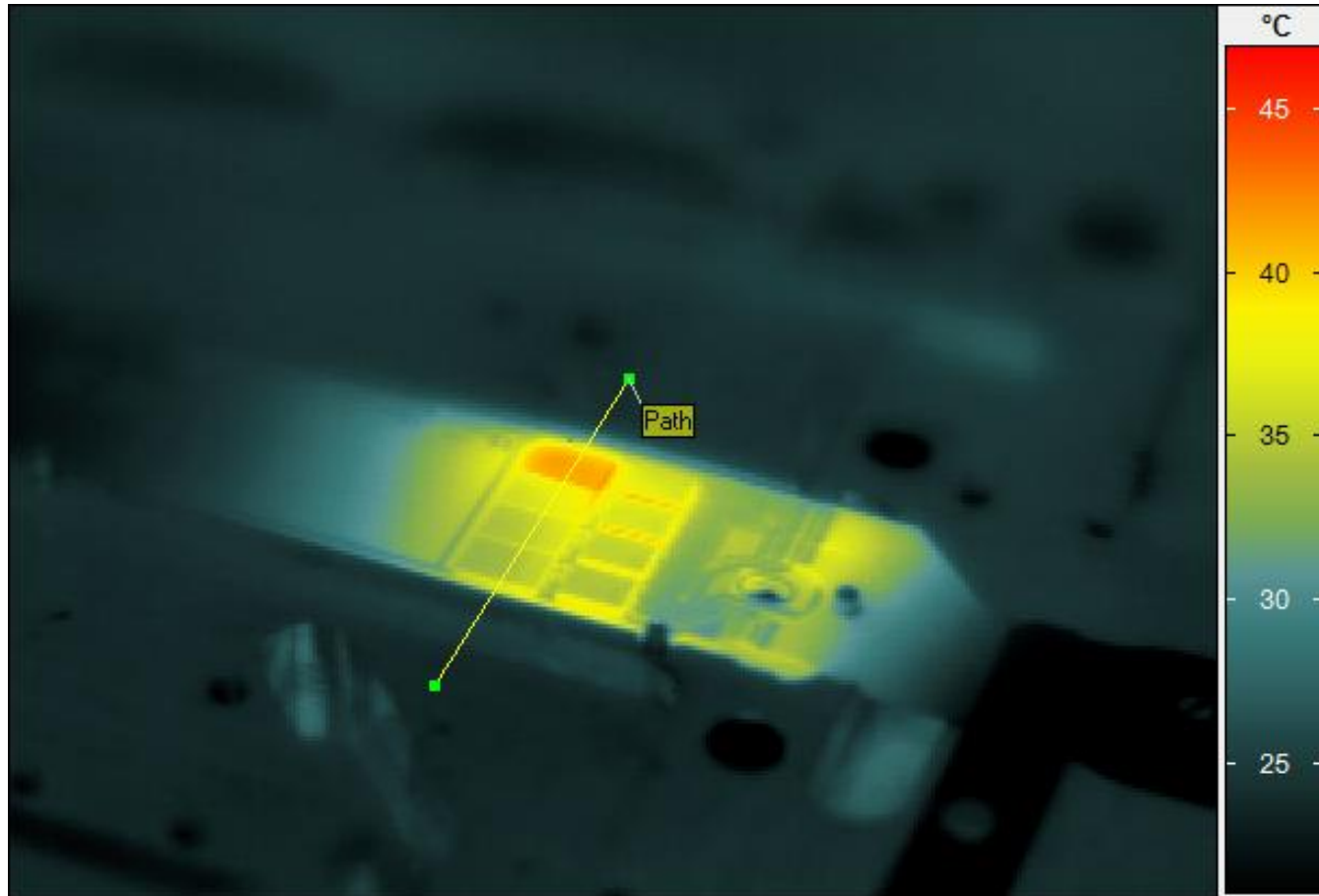
$T_{DCD} \sim 30\ ^{\circ}C$

3 m Power Cables

noise (dacifbpbias=90, dacipsource=105, dacipsource2=100, dcd-amplow=450, dcd-refin=800)

gain=1

Noise > 3 ADU (Low Gain)

gain=2

Noise > 5 ADU (High Gain)

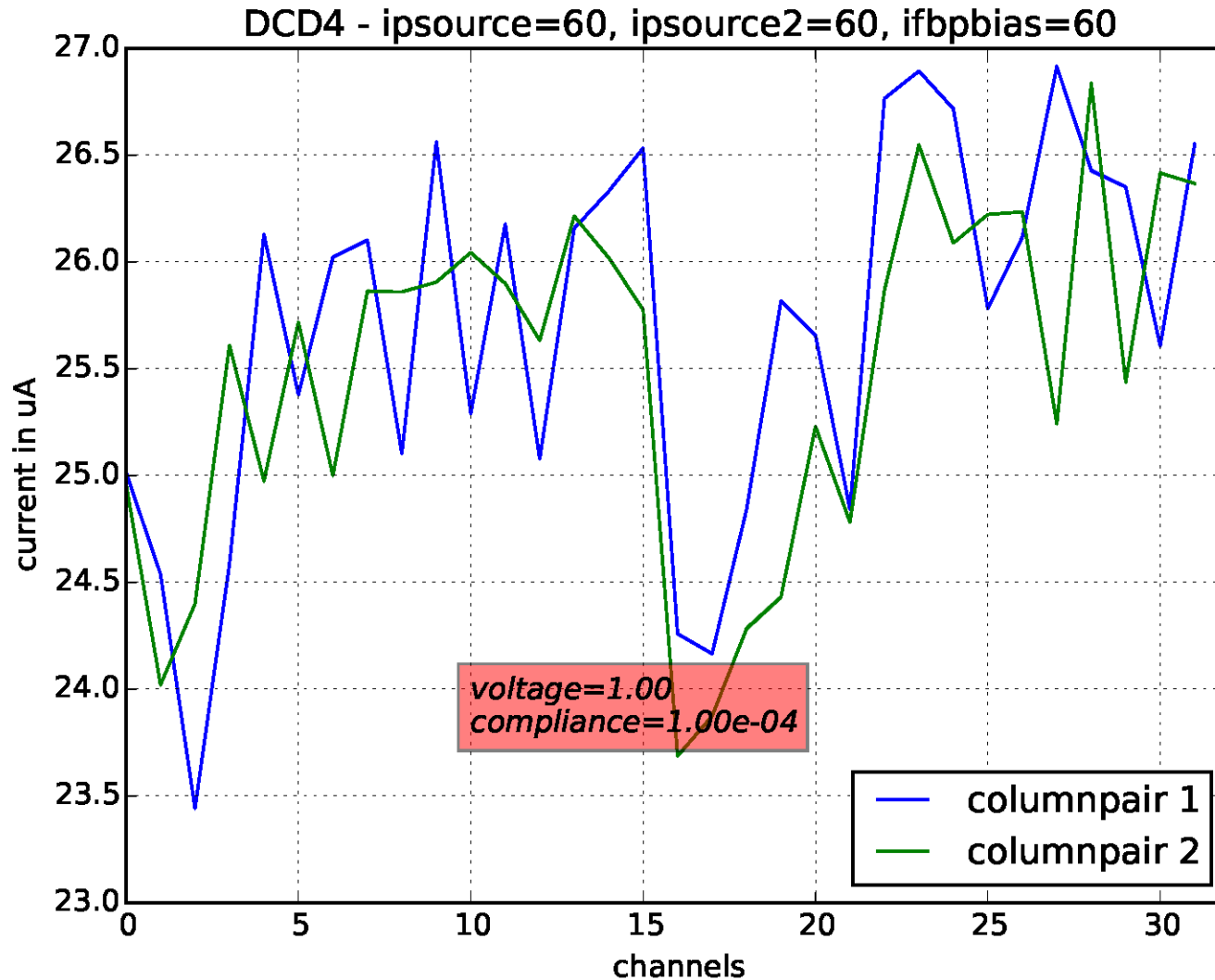# 15 m Power Cables

noise (dacifbpbias=90, dacipsource=105, dacipsource2=100, dcd-amplow=450, dcd-refin=800)

Noise < 2 ADU (Low Gain)

Noise < 3 ADU (High Gain)

Noise origin under investigation
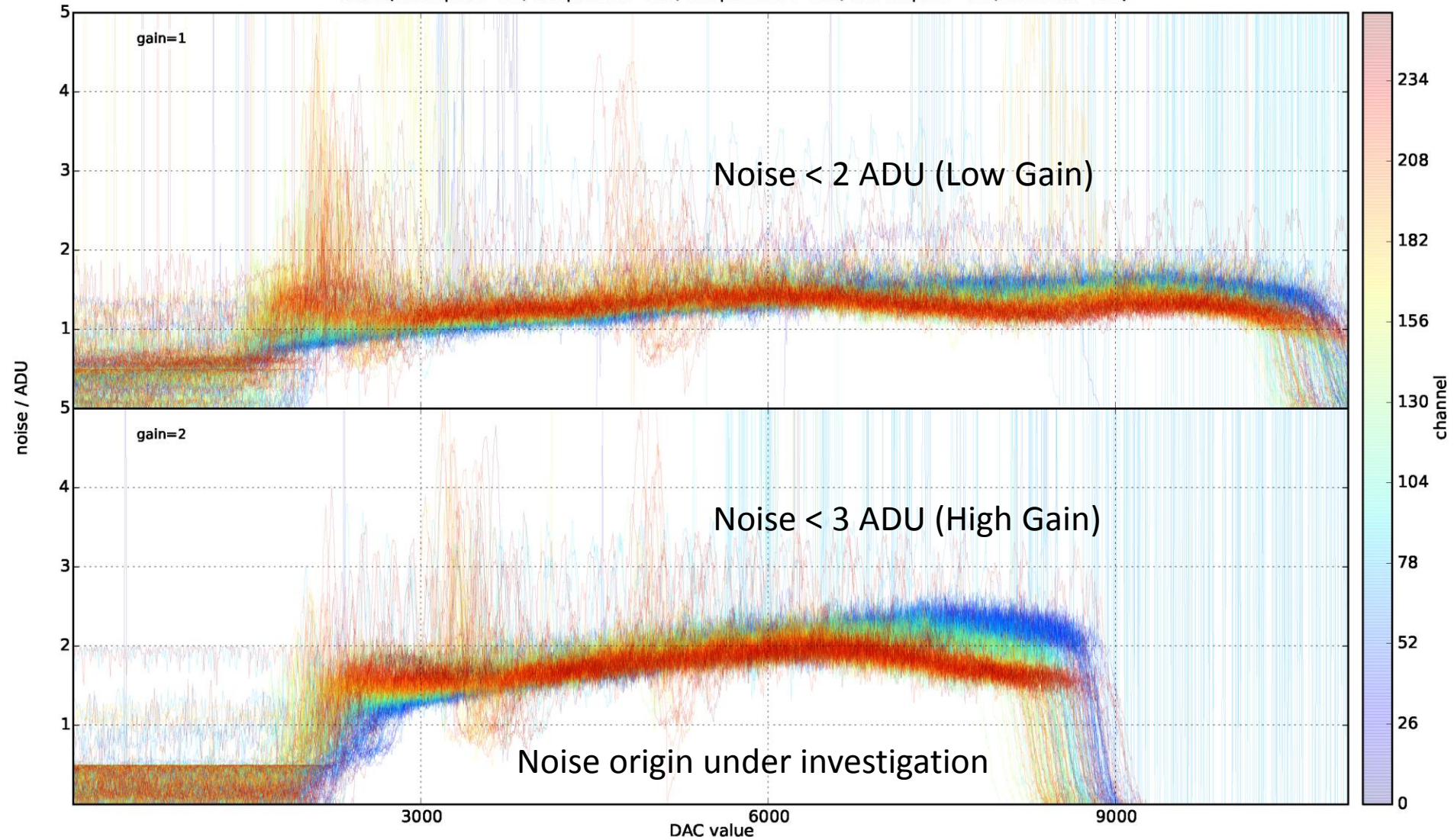
Current Memory Cell

Current Memory Cell

DCD4 - ipsource=70, ipsource2=65, ifbpbias=80