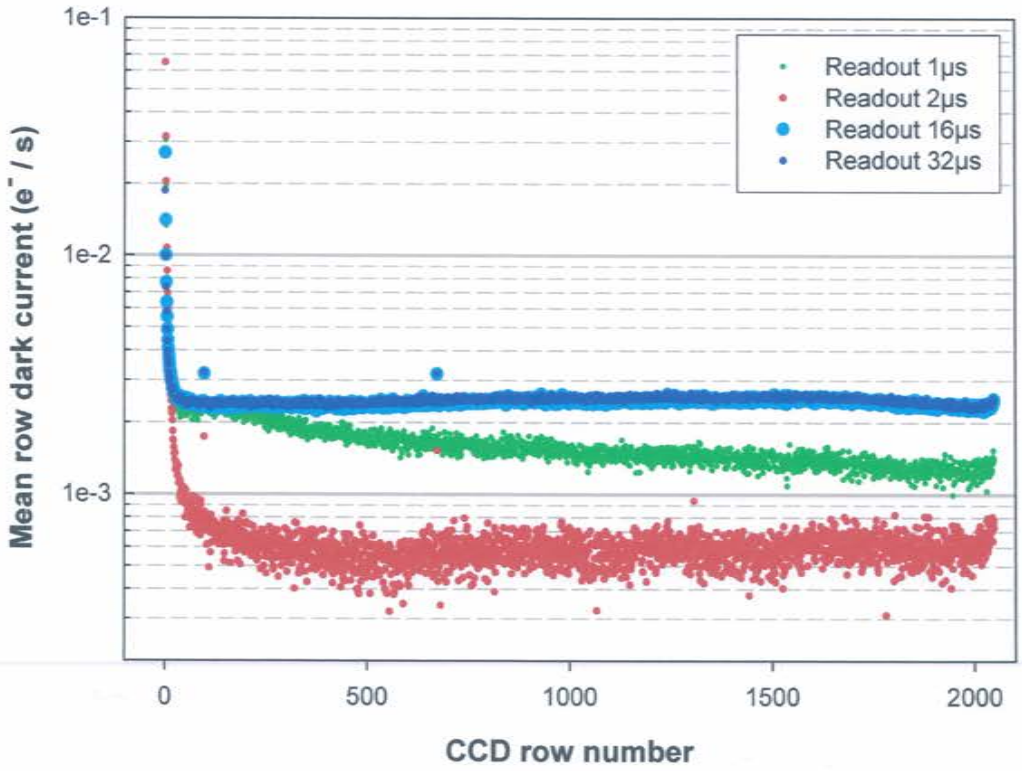
Andor DW436

Row average dark current vs row number at CCD temperature -70° C

Mean dark in e^- per second per pixel

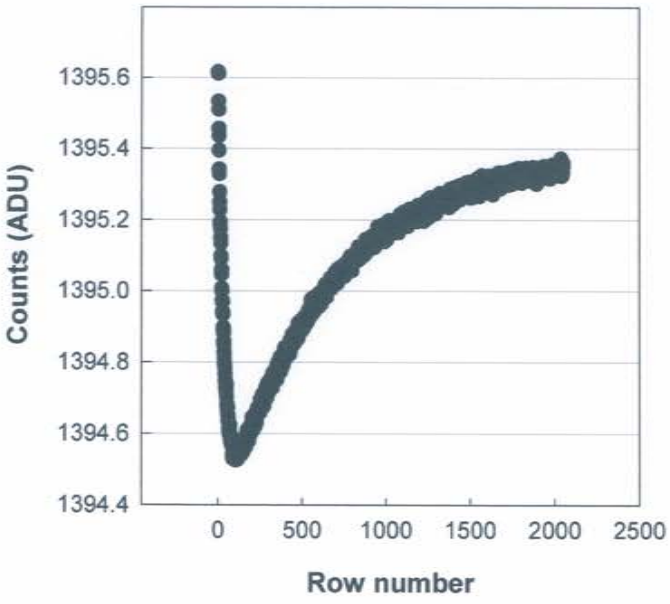
Readout 1µs = 1.513×10^{-3} Readout 16µs = 2.438×10^{-3}

Readout 2µs = 0.591×10^{-3} Readout 32µs = 2.490×10^{-3}

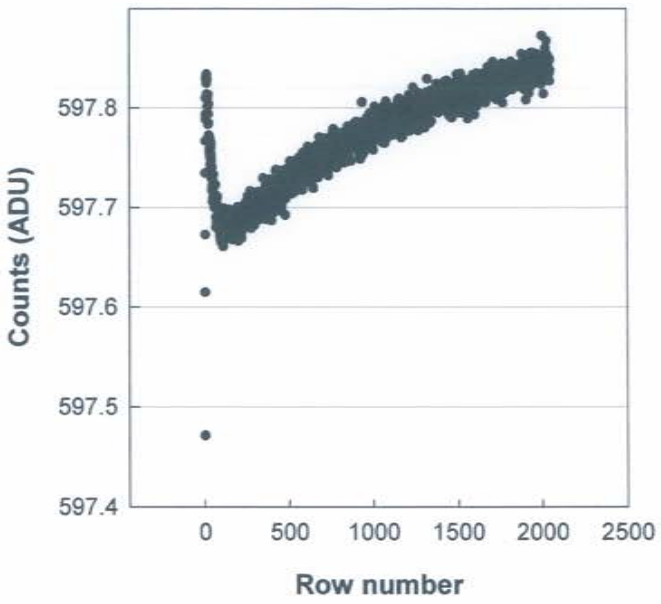


Andor DW436
Row average bias level vs row number

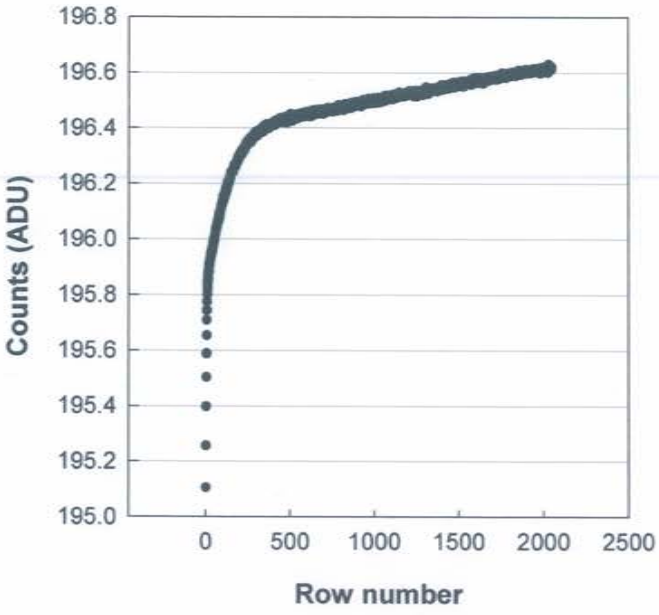
Readout 1µs



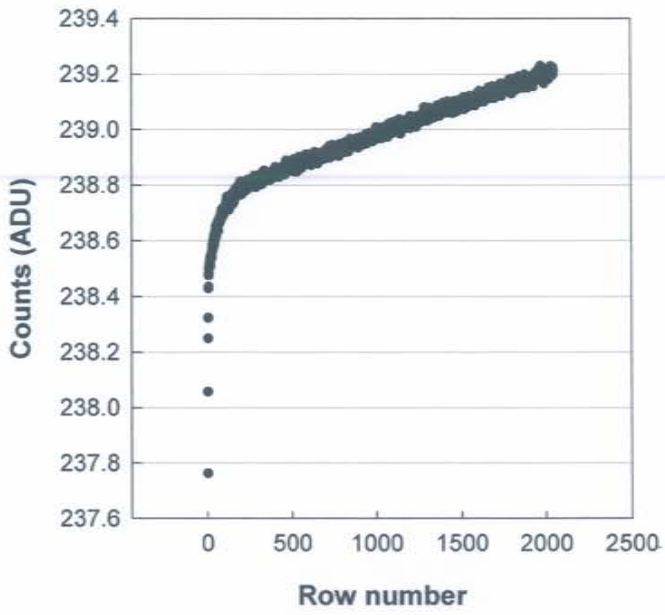
Readout 2µs



Readout 16µs



Readout 32µs

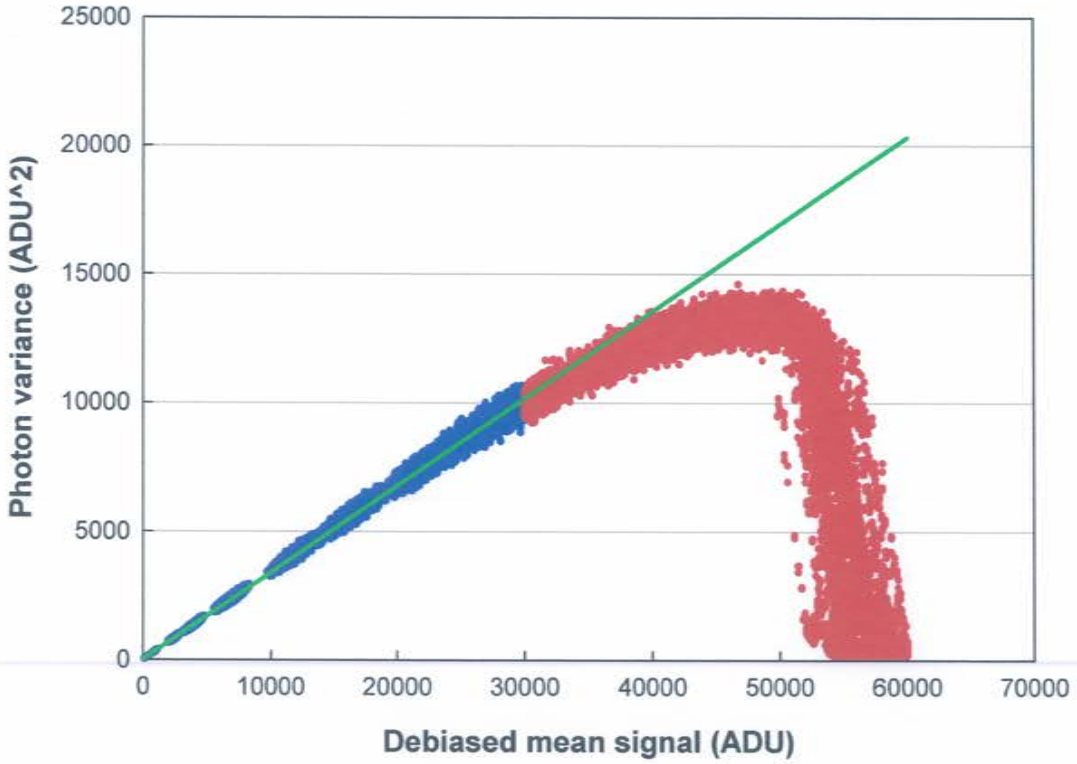


Andor CCD DW436
Readout 1µs

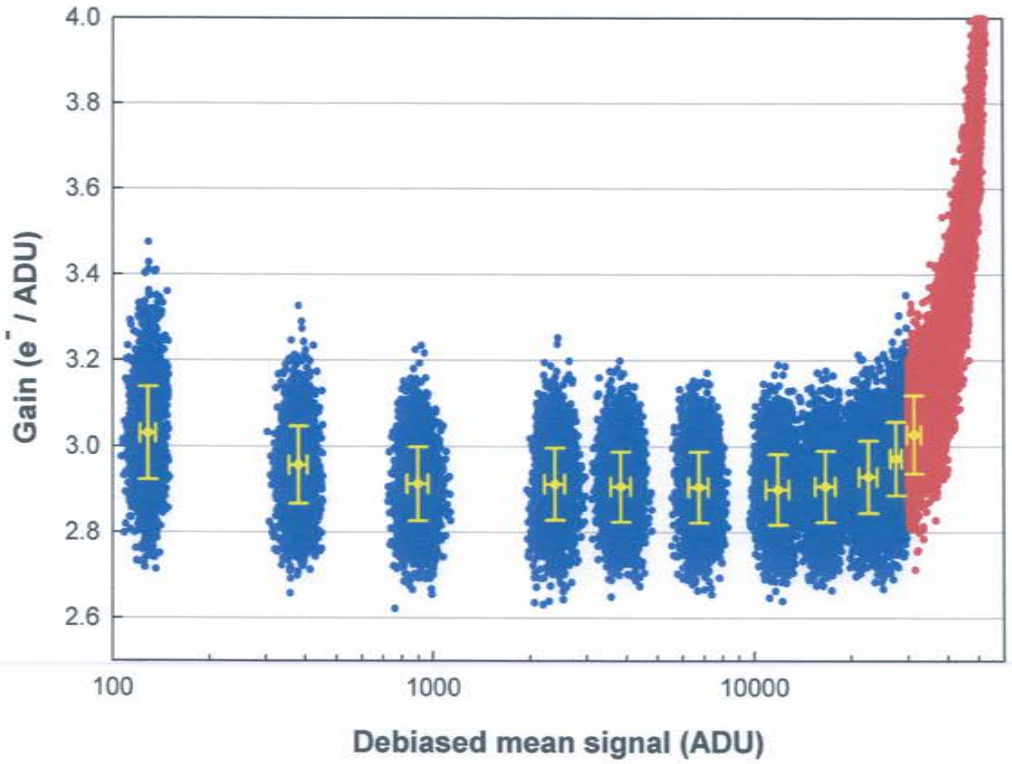
Gain = 2.957 e^-/ADU

RON = 3.1924 ± 0.0510 ADU = 9.44 ± 0.15 e^-

Linearity up to ~30000 ADU



Andor CCD DW436
Readout 1µs

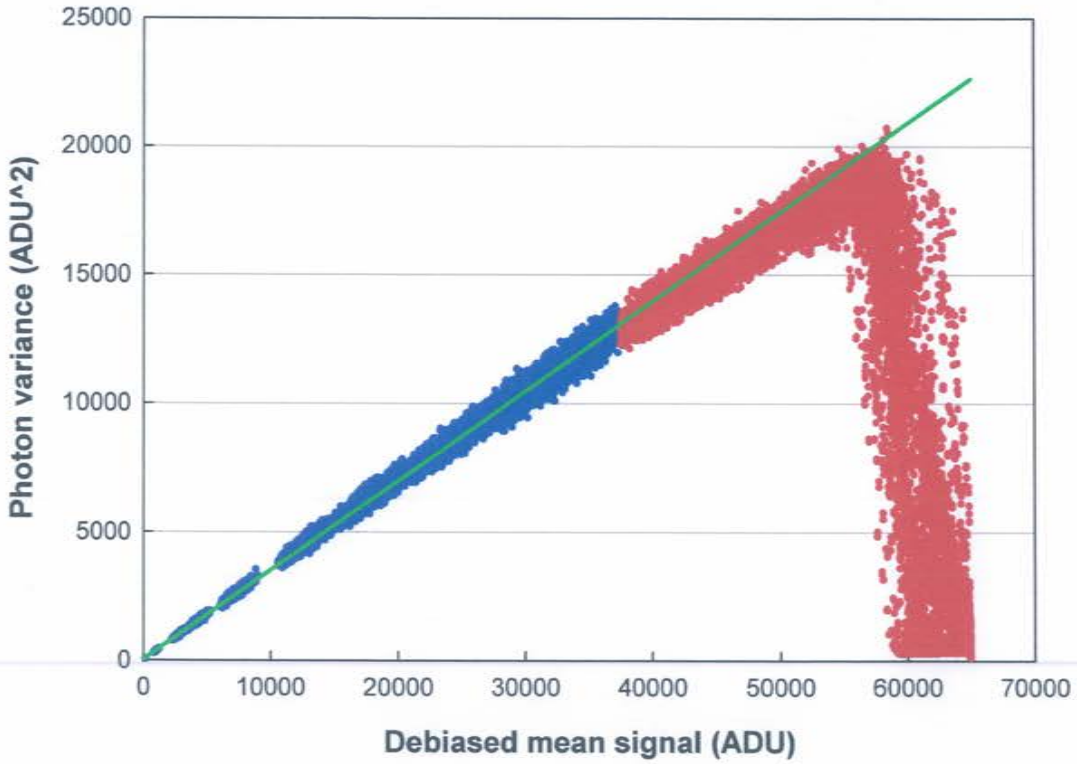


Andor CCD DW436
Readout 2µs

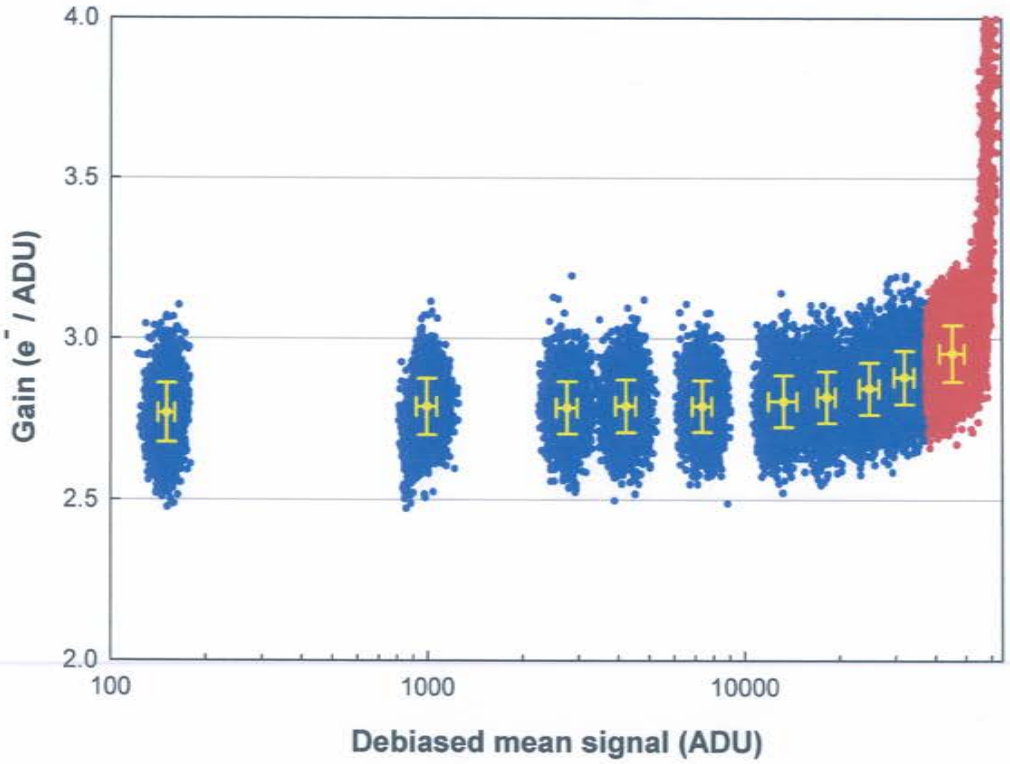
Gain = 2.878 e^-/ADU

RON = 2.7410 ± 0.0407 ADU = 7.89 ± 0.12 e^-

Linearity up to ~37500 ADU



Andor CCD DW436
Readout 2µs

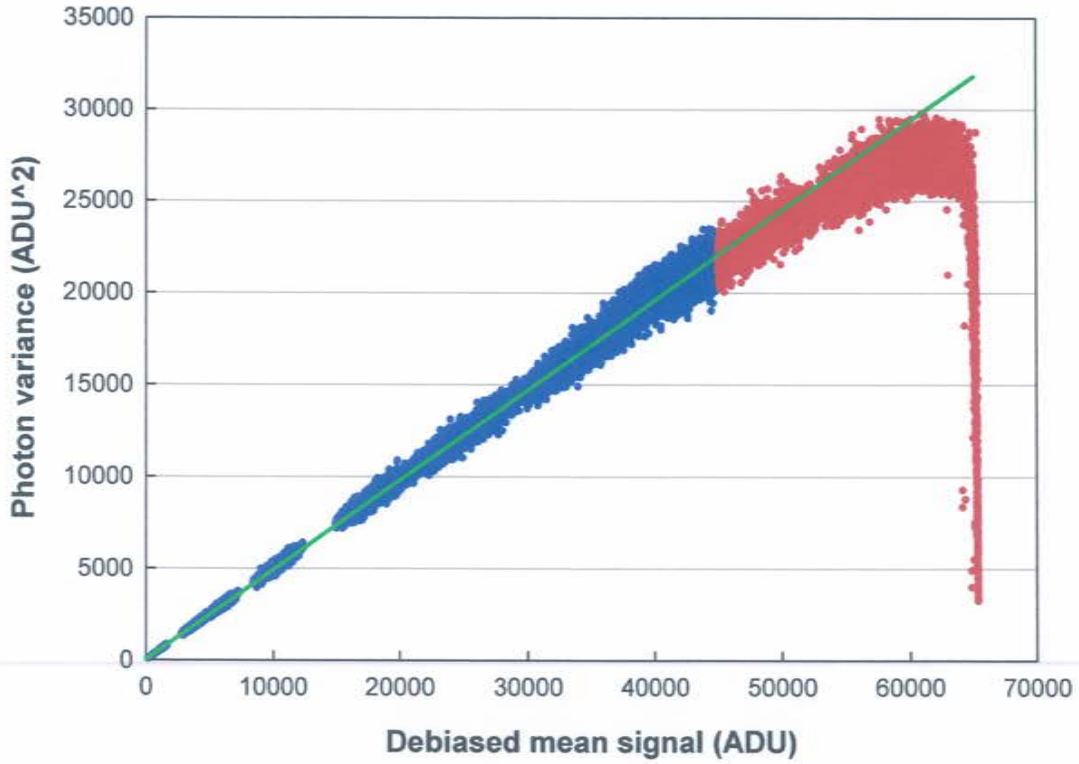


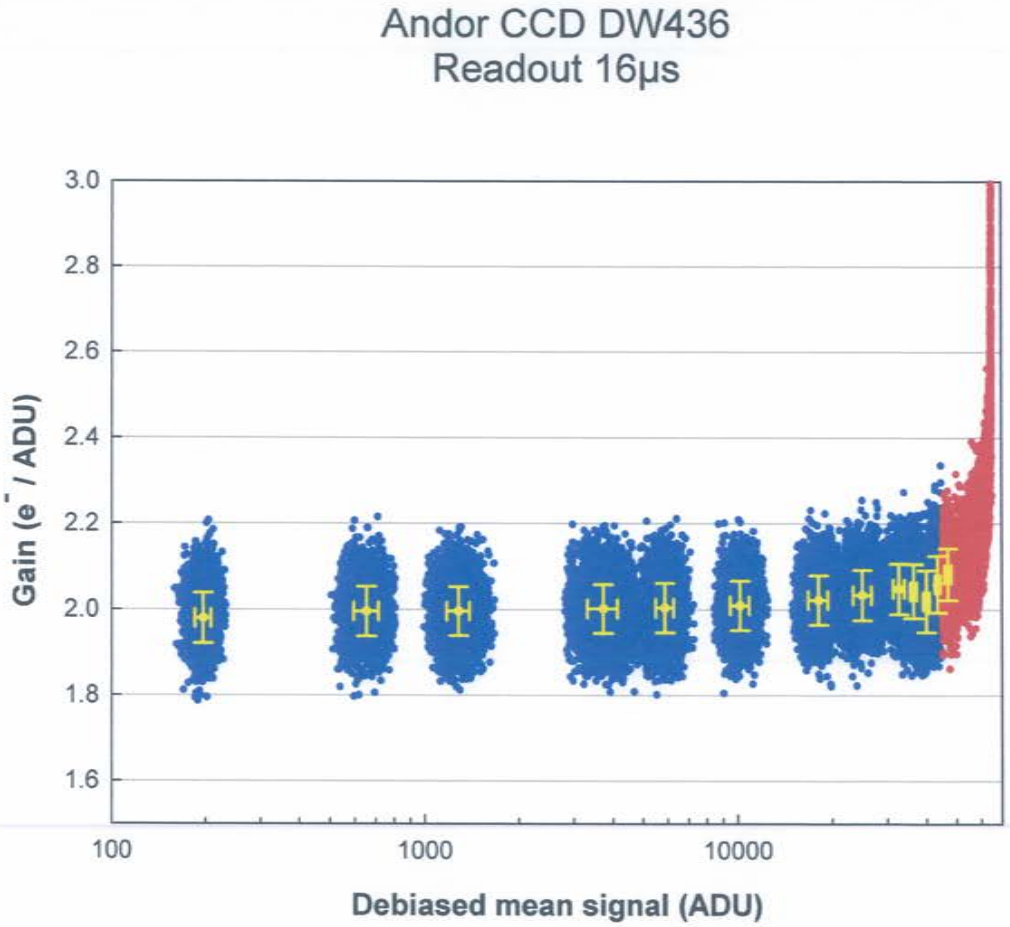
Andor CCD DW436
Readout 16µs

Gain = 2.045 e^-/ADU

RON = 1.3286 ± 0.0320 ADU = 2.72 ± 0.07 e^-

Linearity up to ~45000 ADU



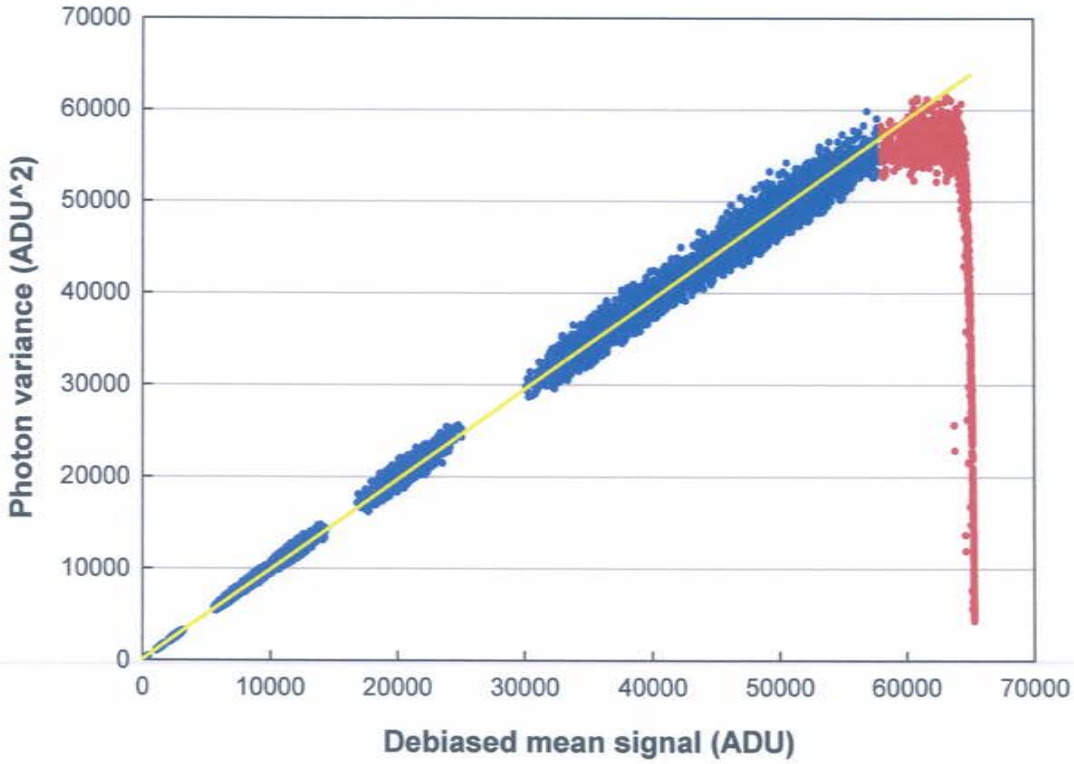

Andor CCD DW436
Readout 16µs
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
Gain (e⁻ / ADU)
100
1000
10000
Debiased mean signal (ADU)

Andor CCD DW436
Readout 32µs

Gain = 1.021 e^-/ADU

RON = 2.3514 ± 0.0551 ADU = 2.40 ± 0.06 e^-

Linearity up to ~58000 ADU



Andor CCD DW436
Readout 32µs