Laser Data from Oxford

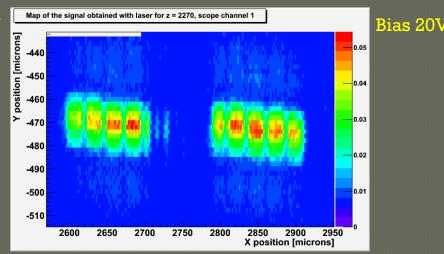
Luigi Vigani

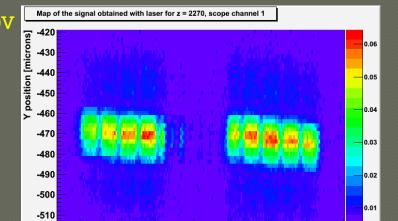
Infrared Laser on HVStripV1

- Infrared laser (1060 nm)
- \odot Pixel (10,0), enclosed transistor
- ullet Absorber on laser and power to 72.5%
 - This to reduce the signals at level of Iron55
- Bias scan
- VNBF set to 60
 - Low noise
 - Short pulses (400ns)

Signal Maps

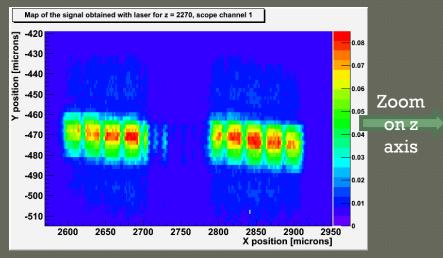


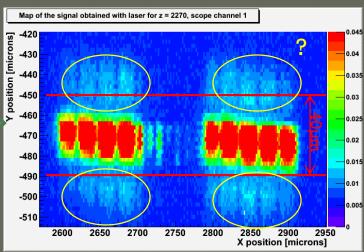




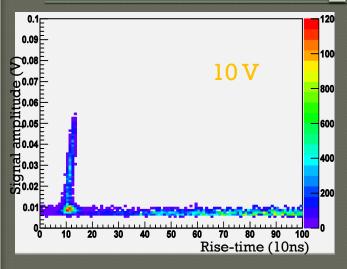
X position [microns]

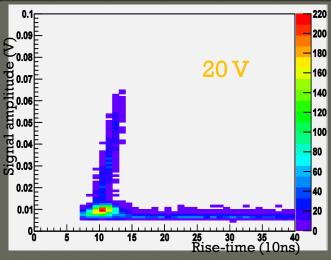
Bias 80V

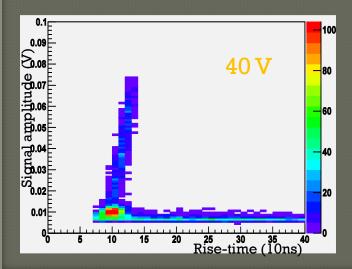


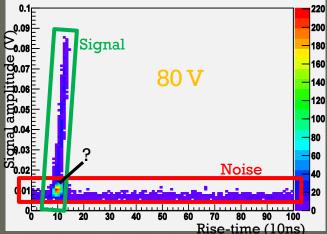


Amplitude vs Rise-time

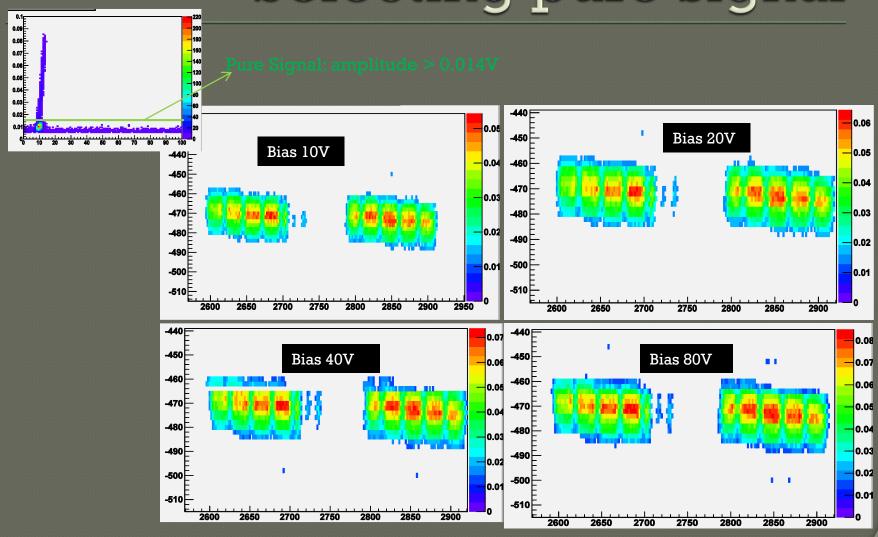




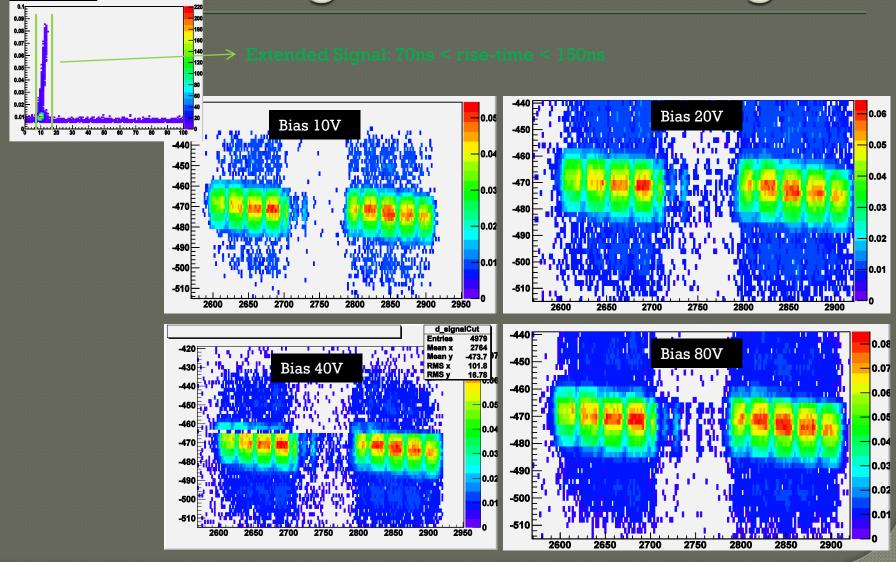




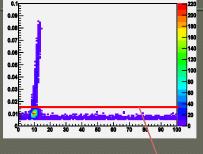
Selecting pure signal



Selecting "extended" signal

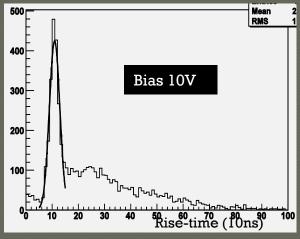


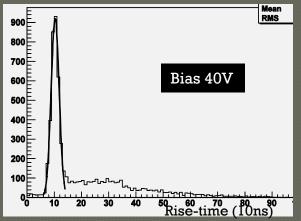
Amplitude distribution

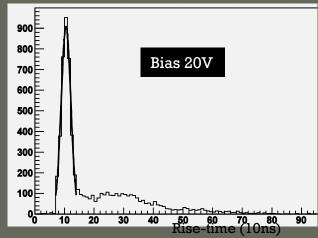


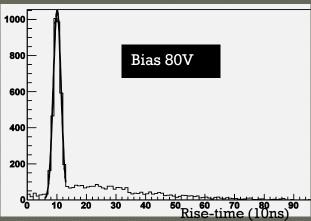
Noise: amplitude < 0.014V

Increase in number of these signals: charge drift/sharing?



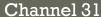


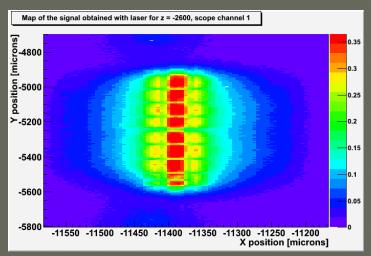




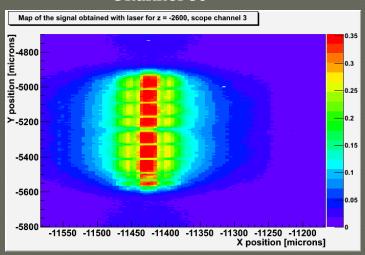
Infrared Laser on Chessl

- DAC setting to default
- Laser at full power
- APA8





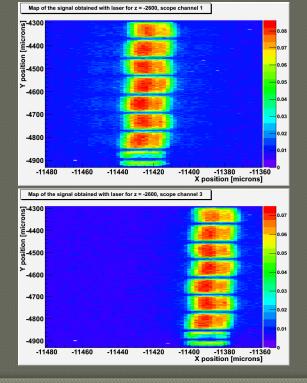
Channel 30

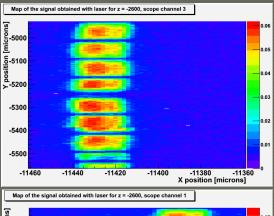


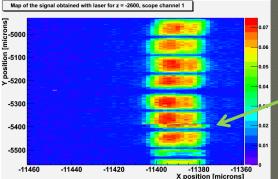
Still lot of superimposition...

Infrared Laser on Chessl

- DAC setting to default
- Absorber mounted and power to 69%
- APA8





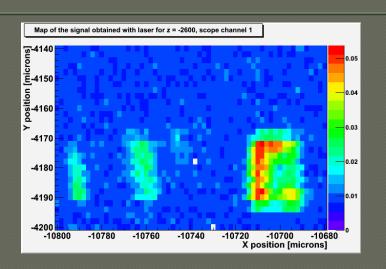


Finally distinction between pixels!

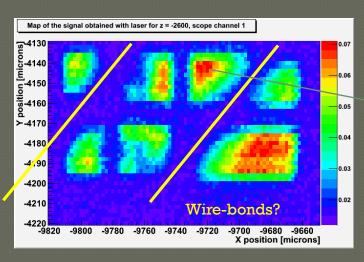
Structures as expected

Some problems in misalignment visible: need for correction.

Infrared on Chess1



APA1



APA4 (2 pixels)

