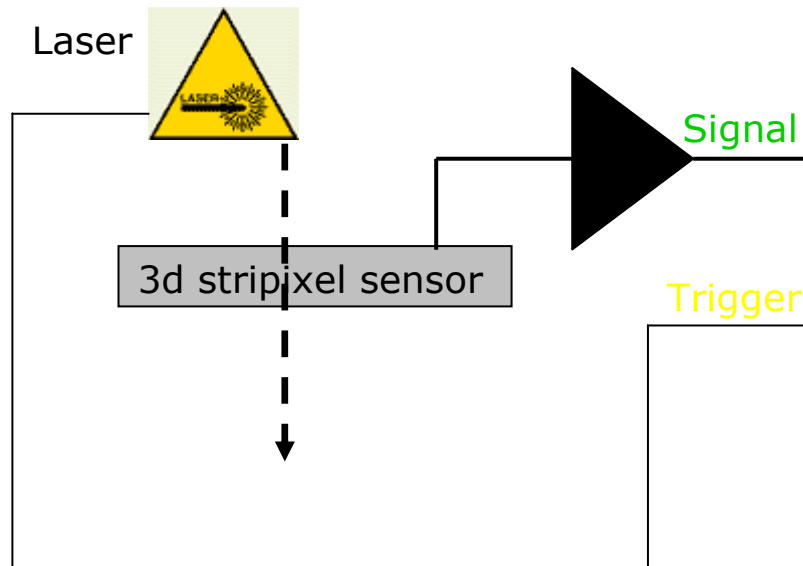


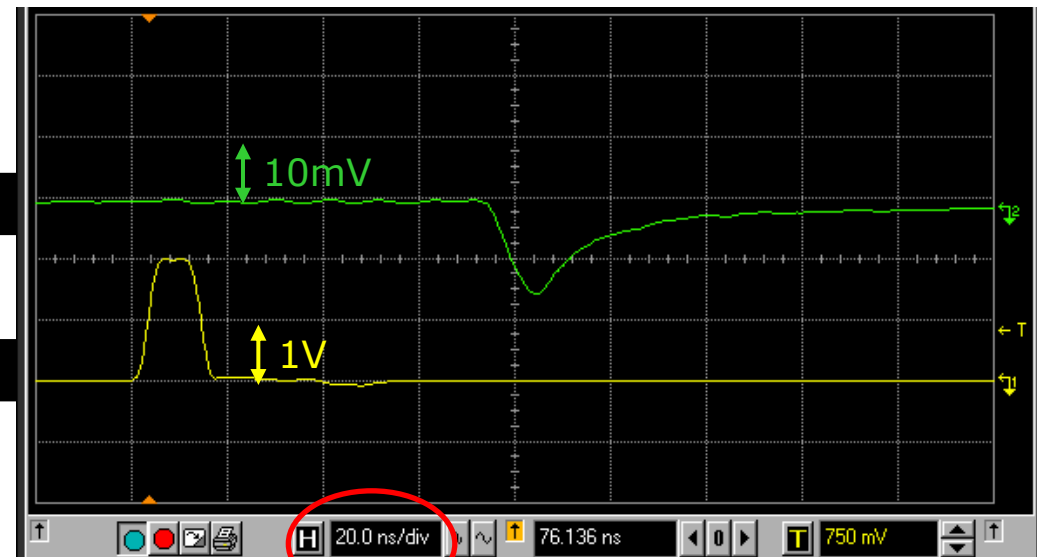
Characterization of new 3d stripixel test detectors

M.Miñano, V.Lacuesta

Setup in Valencia



Real signal viewed at 15V in the scope



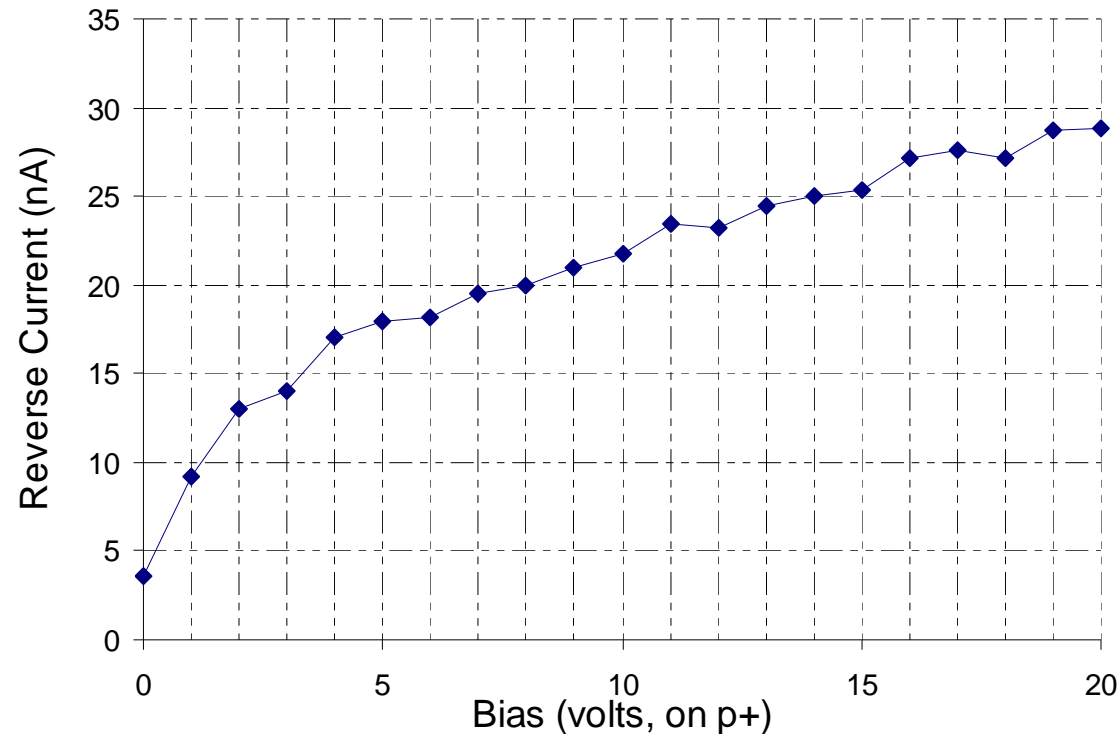
Horizontal scale

- ▣ Laser light is generated by exciting a laser source with an external pulsed signal (2 V and 1 MHz rate)

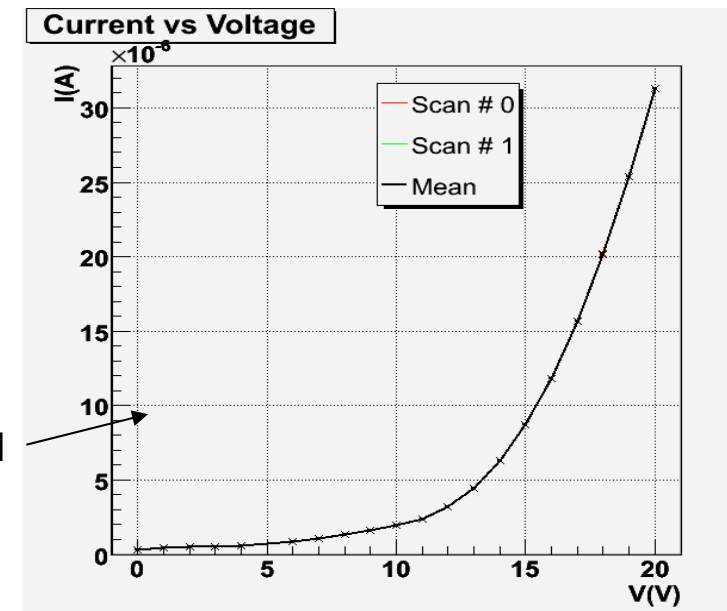
Laser properties:

- ▣ $\lambda=1060$ nm (Near Infrared)
- ▣ Laser energy of photons=1.170 eV

Current measurements



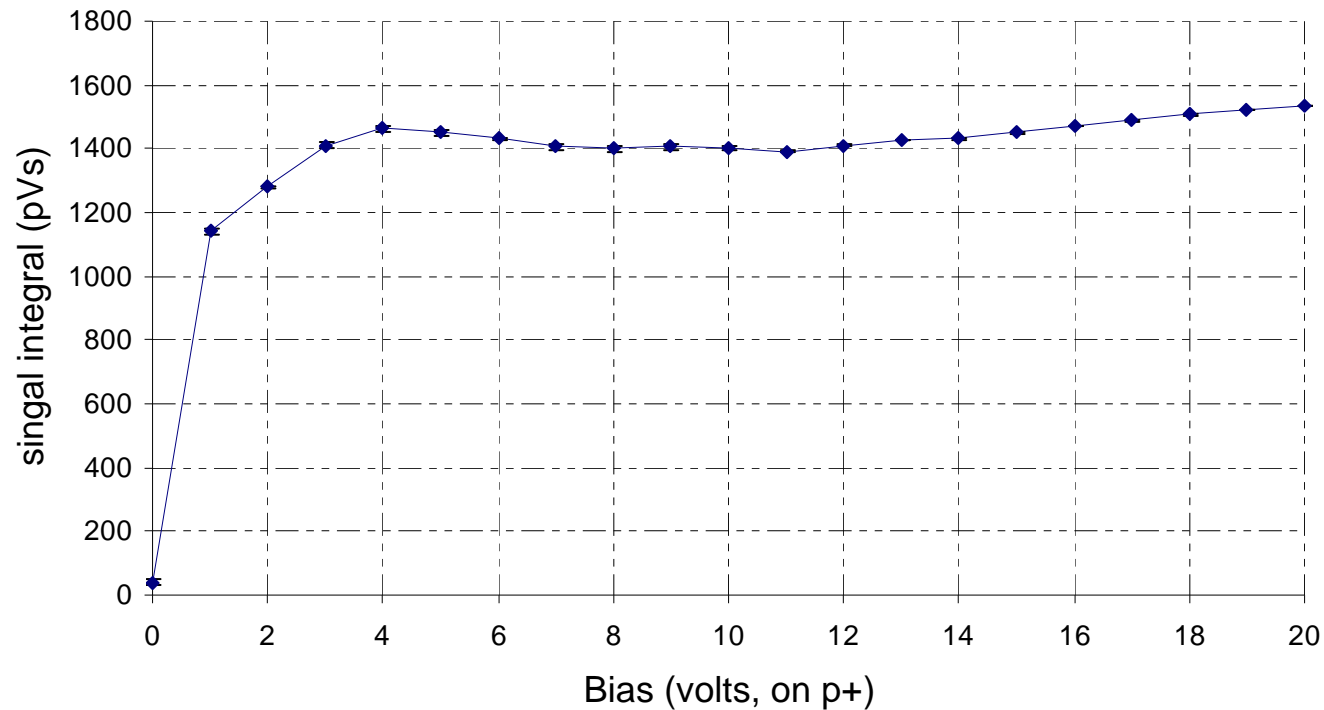
- Ta= 23°C
- Biasing all Y p⁺ strips negative
- Guard ring grounded



Con cable de señal

Estos detectores son DC por lo que es necesario poner un condensador de acoplo entre la capa metálica y el preamplificador

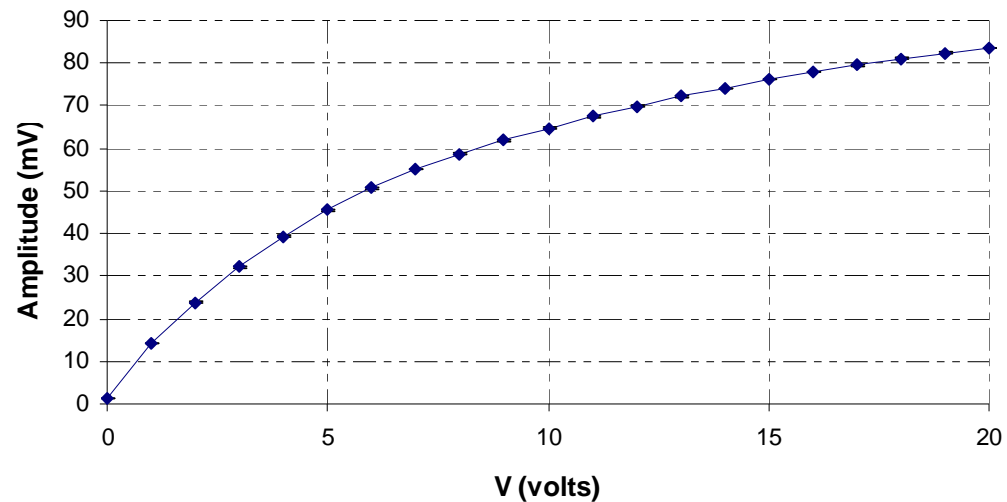
Charge collection measurements



- Biasing all Y p⁺ strips negative
- The signal corresponds to the X n⁺ holes
- Fully depleted at about 4 volts

Signal characteristics

Amplitude vs voltage (on p⁺)



FWHM vs voltage (on p⁺)

