





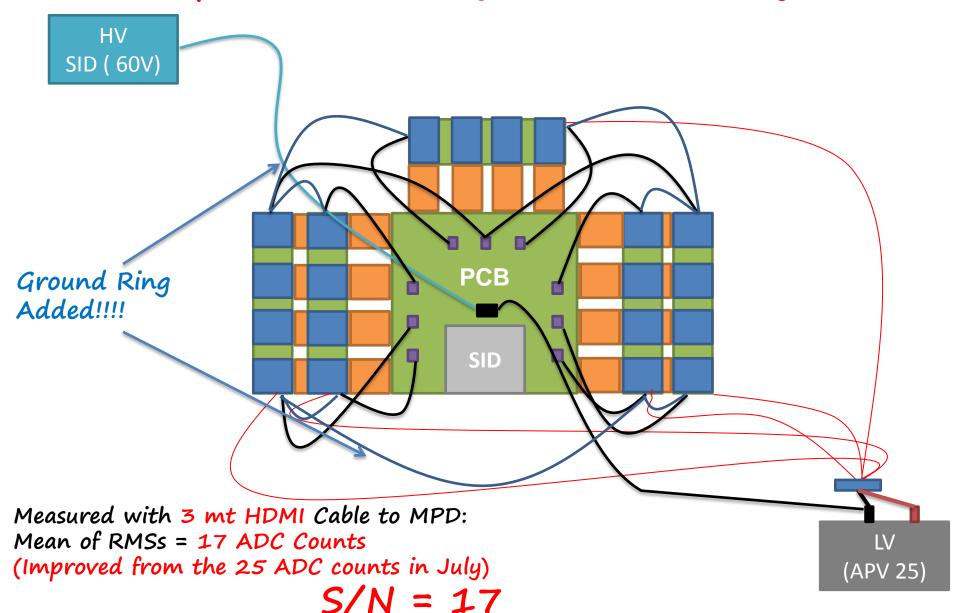


INFN Rome Silicon microstrip Detector for SBS

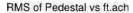
F. De Persio - S. Kiprich - F. Meddi - G.M. Urcivoli

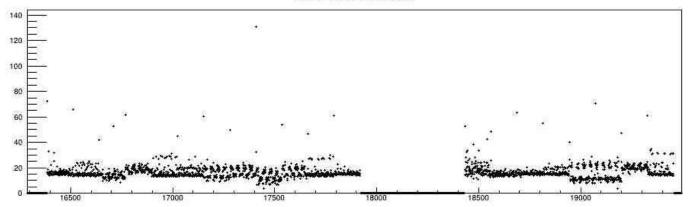
Ground Improvement Part 2

Improved Ground System (Star + Ring)



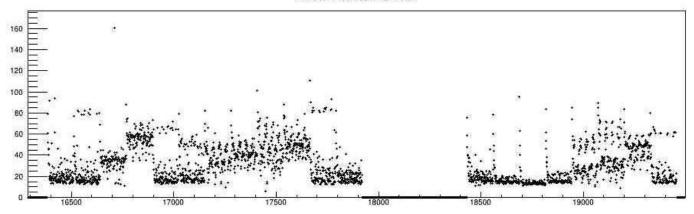
AVP25 to MPD: 3 m HDMI Cable vs 23 m HDMI Cable





3 m HDMI Cable Mean of RMSs = 17 ADC Counts S/N = 17

RMS of Pedestal vs ft.ach



23 m HDMI Cable
Mean of RMSs =
30 ADC Counts
S/N = 10
(40 ADC Sounts in
July)

Pulse Laser Test

Pulse Laser Test Station

A dedicated test System will generate some pseudo-mip inside the SiD using a pulse laser and one optical fiber located over the SiD.

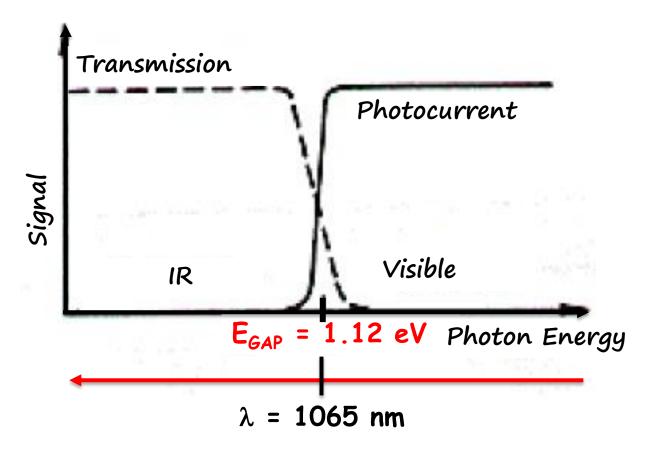
This system will:

- Test SiD efficiency (Good channels/Bad Channels)
- Test Read-Out electronics
- Measure SiD S/N Ratio
- Be always avaible (Test Beam is not always avaible!!!)

Hardware features:

- XYZ motorized 5 μm step stage for fiber positioning
- 6 manual adjustement
- SMJ 5-125 Optical Fiber
- Pulsed Laser ($\dot{\lambda} \approx 1065 \mu m$, near-IR)
- Camera for SiD alignment with the system

Wavelength choice



High number of photons goes through SiD without interaction!

BUT a small amount generate Signal !!!!!!!!!!!!!!

How it works

