What we've measured at Pit



- Don't know whether it is due to the PL512 or something else
- We checked voltage signal at the backside of power supply with oscilloscope at A3.3 for Layer 4,5 without robpower on:(see below)



- We checked voltage signal at the backside of power supply with oscilloscope at A3.3 for Layer 4,5 with robpower on:(see below)
- PS + and grounding is fluctuating +-1V from rack ground with same phase (can it be a problem to PASA?)



• Following Wiener's suggestion, put the ferrite at the backside of power supply like below for A3.3 of Layer4,5 (put two lines together to pick the common noise).



• Then, measured the noise again



Run

What we measured from oscilloscope



2 J 3.96 V

Auto

-5.74μs 0.00 V 4.66μs 40.0mV Δ10.4μs Δ40.0mV Cursors Linked





With Ferrite, we still see this type of noise(600ns) from data at the most noisy pixels



Conclusion up to now

- We don't see noise reduction with the ferrite installation at pit
- Then, the noise we see at the last stack
 - might not from the LV PL512

- if it is due to LVPL512, still the ferrite is not suitable for the noise reduction

- we are also checking SM grounding to space frame (we will change some ground connection and see if gives difference)

- if it doesn't give difference, we check with PL508 to conclude if it is really power supply problem

• Does the ferrite help for TPC?