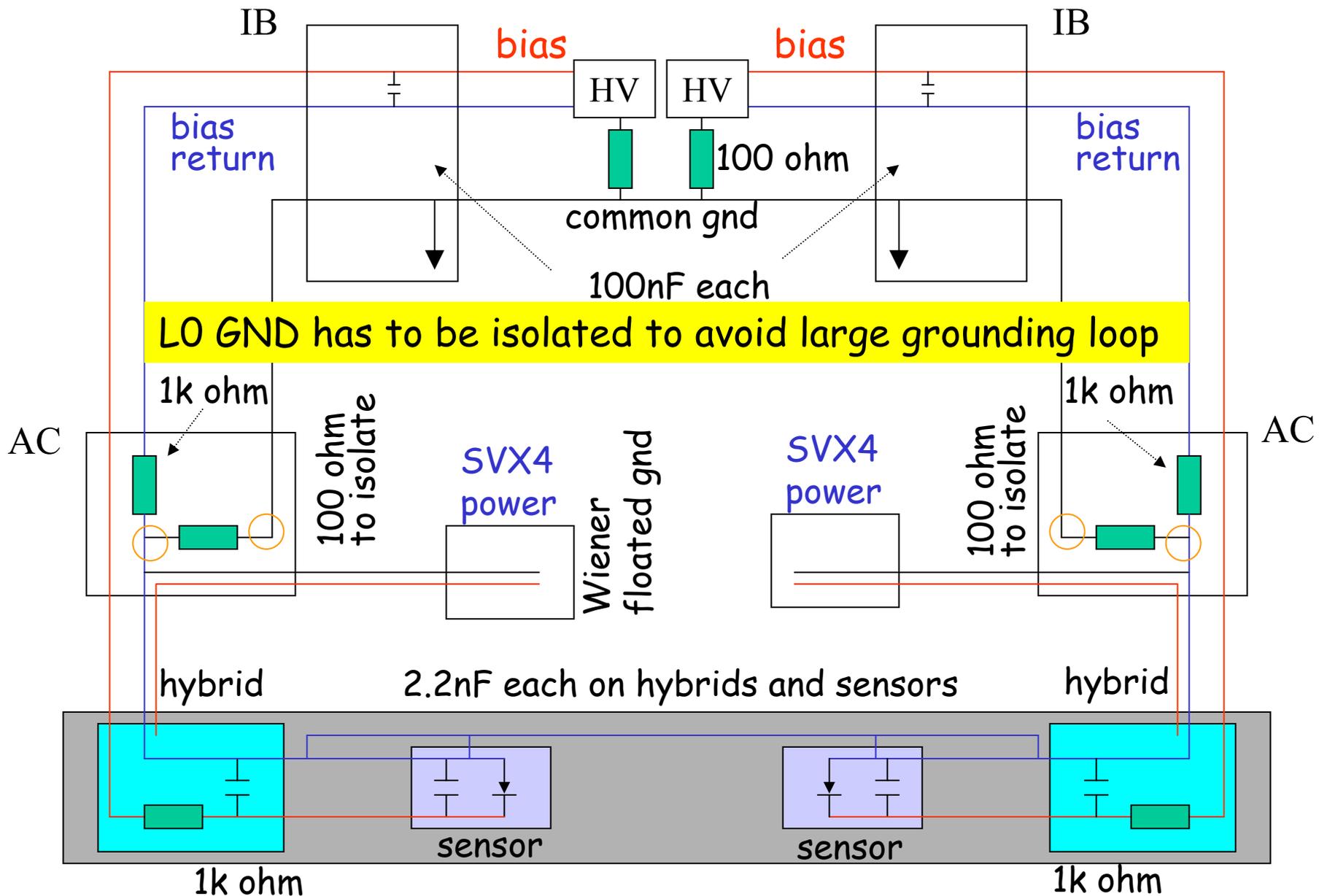


News/Status

- Readout at DAB
 - study of tick dependence
 - sampling of pedestal cell (PRD2) is bothered by L1A
 - to include 4 prototype modules to physics runs
 - development download GUI which can work both for SVX2 and SVX4
 - comparison of SVX2 pedestal with and w/o SVX4
- New finding of grounding issue related to bias
- Clustering/Tracking studies

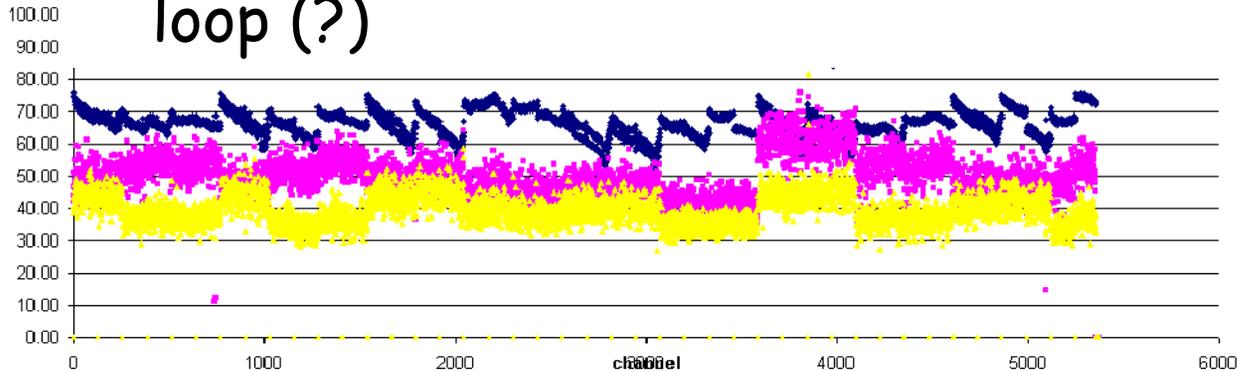
Some testing/debugging results

- Frequent HV pods trip
 - potential difference between bias return and common ground → current flow: 5-6 μA
- Noise related to the bias
 - this may explain the reason why isolated grounding scheme better than common grounding scheme
- Noise behavior which we don't understand
- Debugging to confirm all the modules can be downloaded
 - the problems after the adaptor card

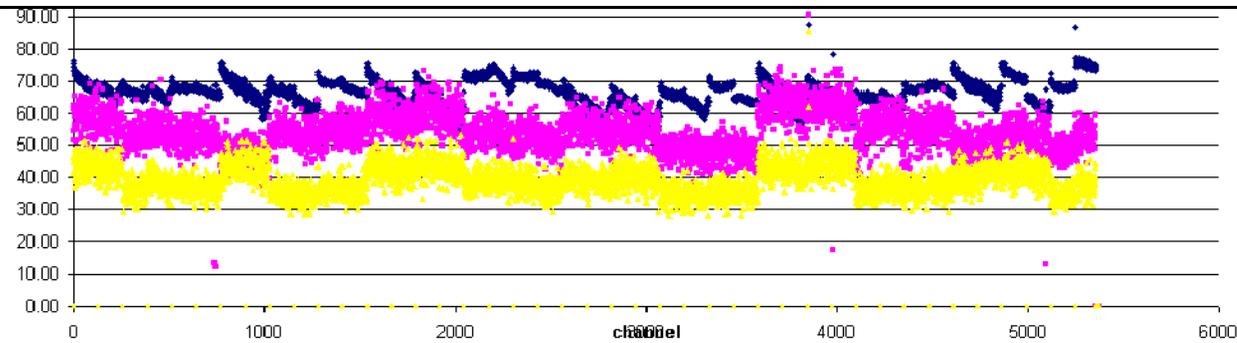


Noise due to bias line (?)

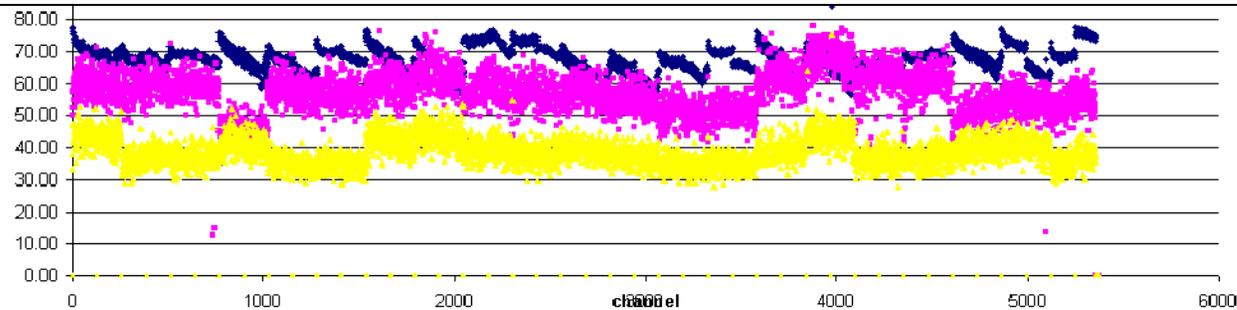
- Coherent pickup noise seems to increase when bias is connected and turned on → pick up due to grounding loop (?)



no bias is
connected



bias is connected,
but off



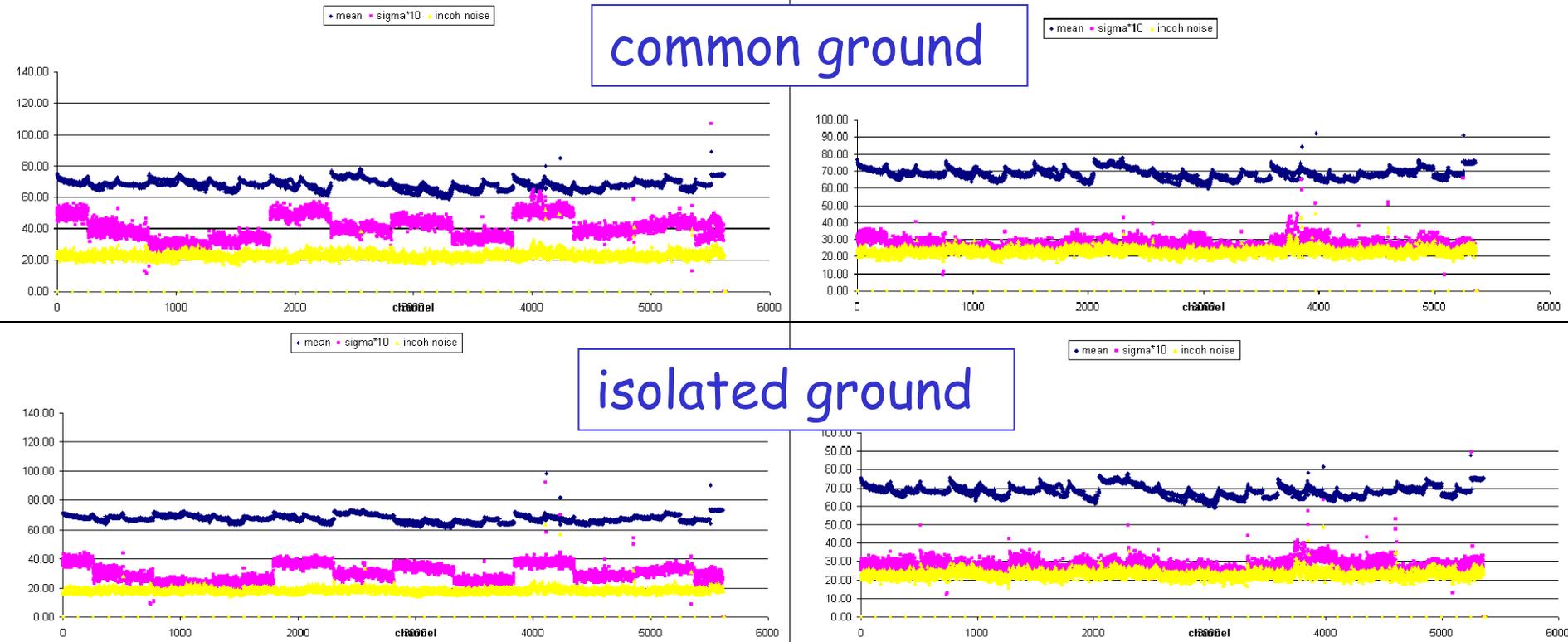
bias is turned on
with OV

Variation of noise level

Nov. 28

Note! the different scales

Dec. 1



- Coherent pickup is external
- Difficult to expect, but even bad day is acceptable
- DAB is better ???

What to do

- RCRCR filter for RTD on AC
 - Linda orders capacitors and modeling of circuit for 60dB reduction for ~1k Hz
- Testing first on the electrical support
 - setup must be resumed
- Do we want to do testing on the full system?