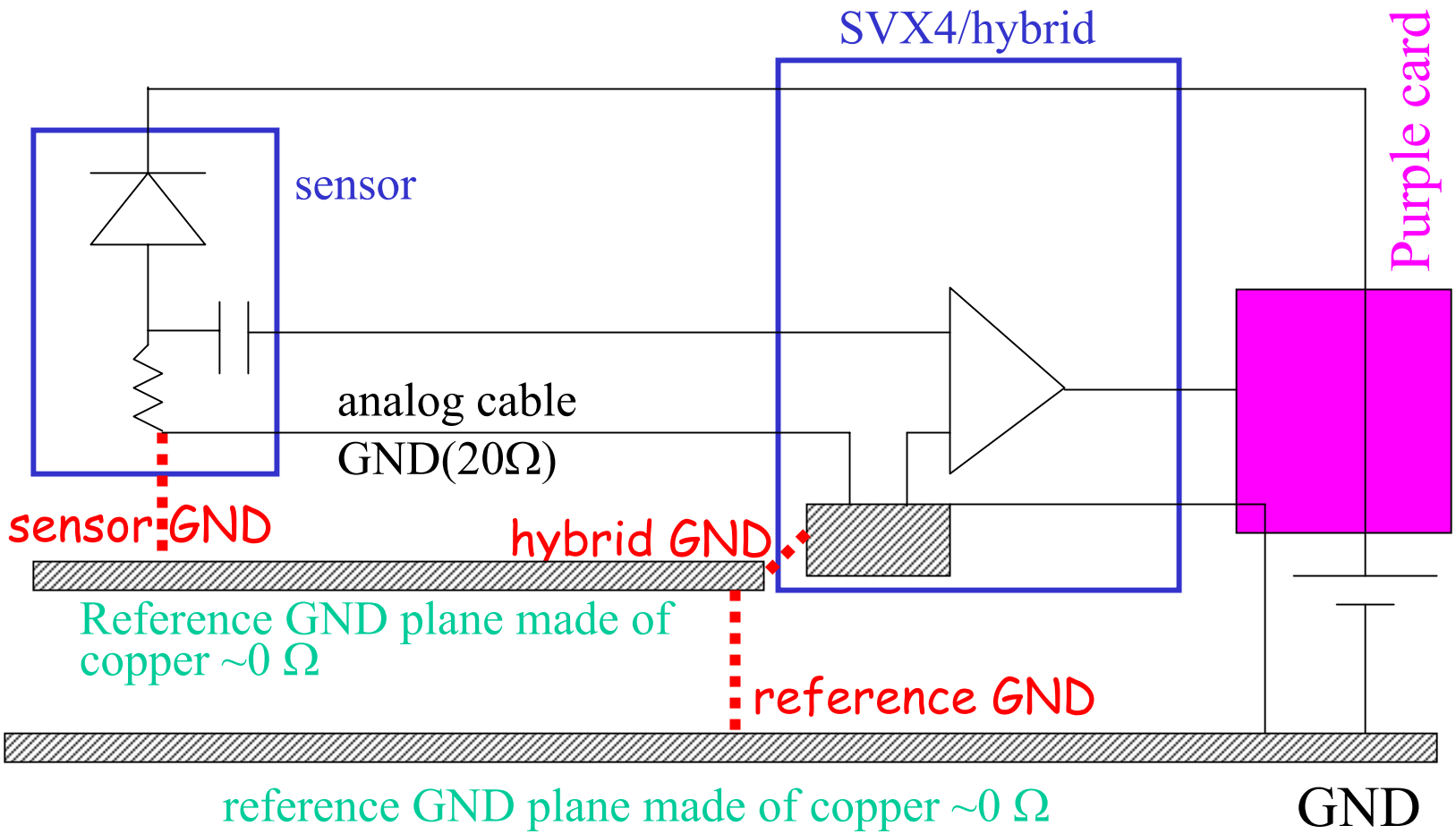
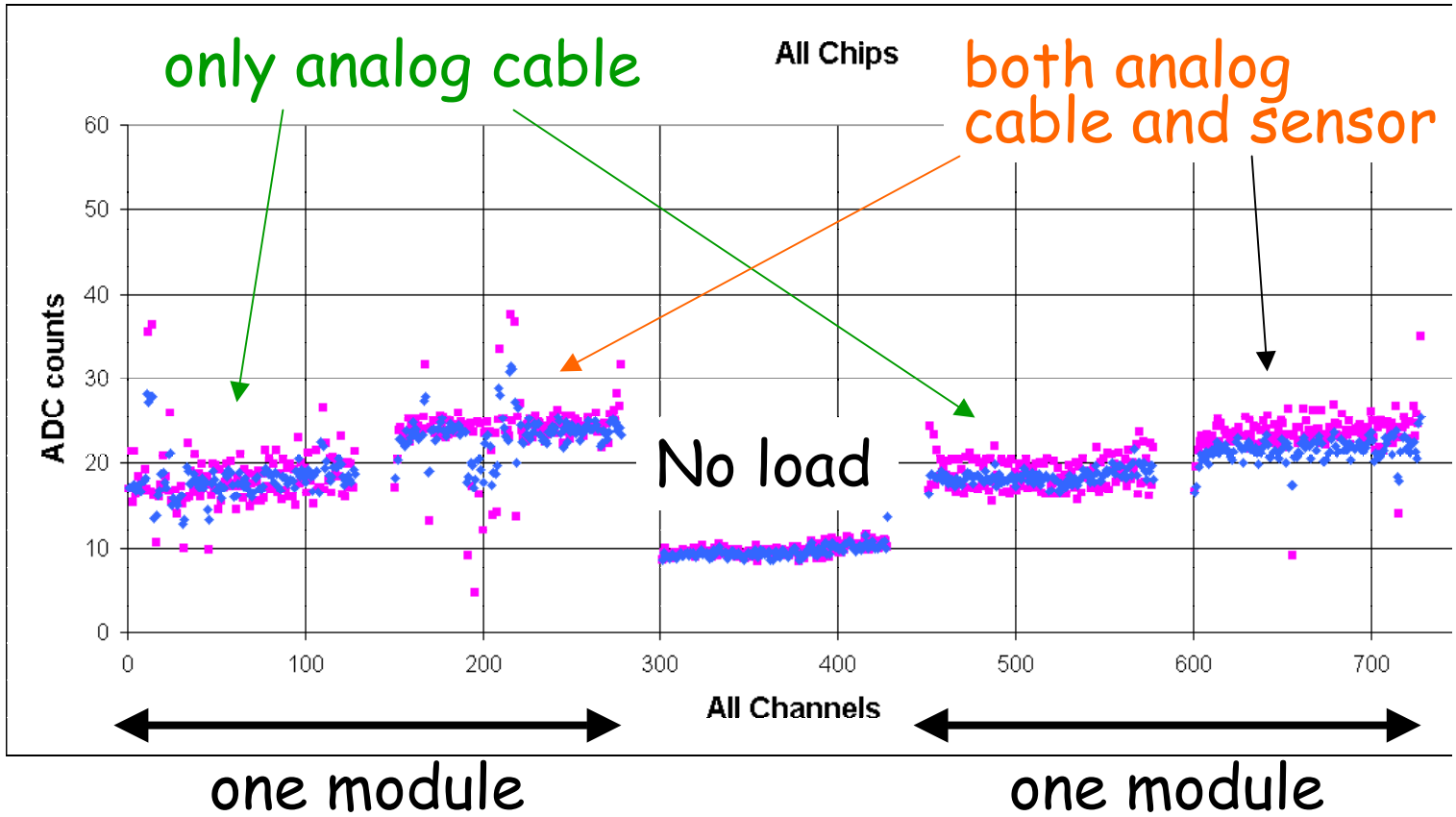
Grounding Study

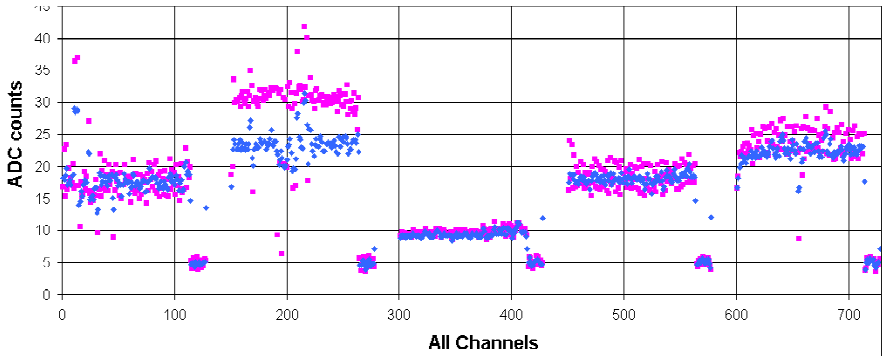


Single point Ground at Hybrid (H)

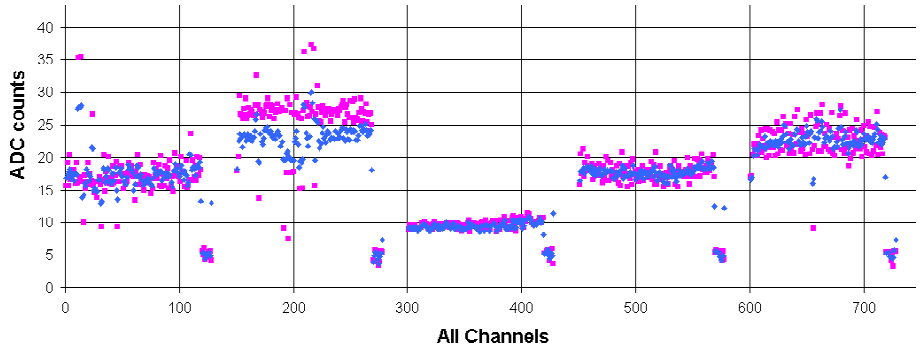


Both Sensor (S) and H ground for the first module

H: <1cm long very thin cable
R: 7cm long very thin cable

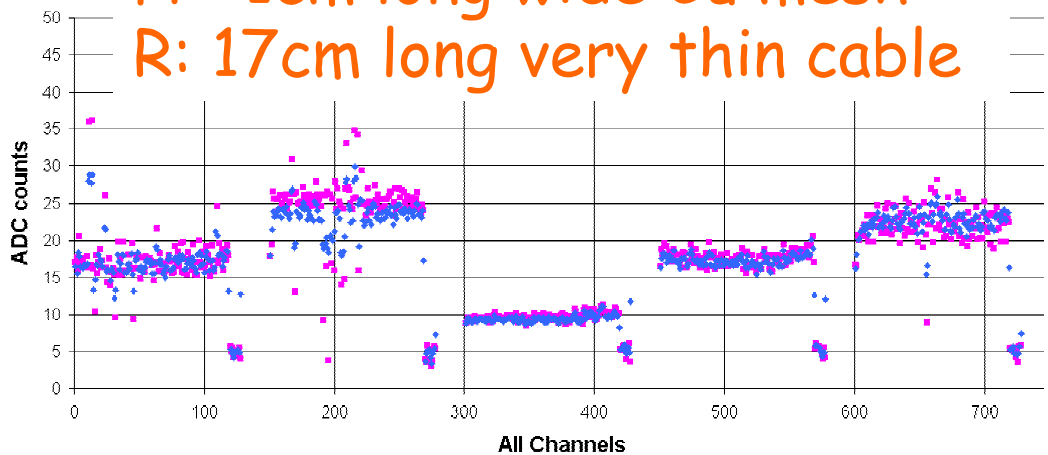


H: <1cm long wide Cu mesh
R: 7cm long very thin cable



S: 2-3cm long wide Cu mesh

H: <1cm long wide Cu mesh
R: 17cm long very thin cable



Conclusions

- Inductance of H must be as low as possible for any configurations (we had already known – again it was reconfirmed)
- In case there is a connection of S
  - Lager inductance at R is better !?
  - Inductance at H must be lower than that in a configuration without S connection
- In case of single point ground at H
  - Inductance of R is not relevant as long as having DC connection