



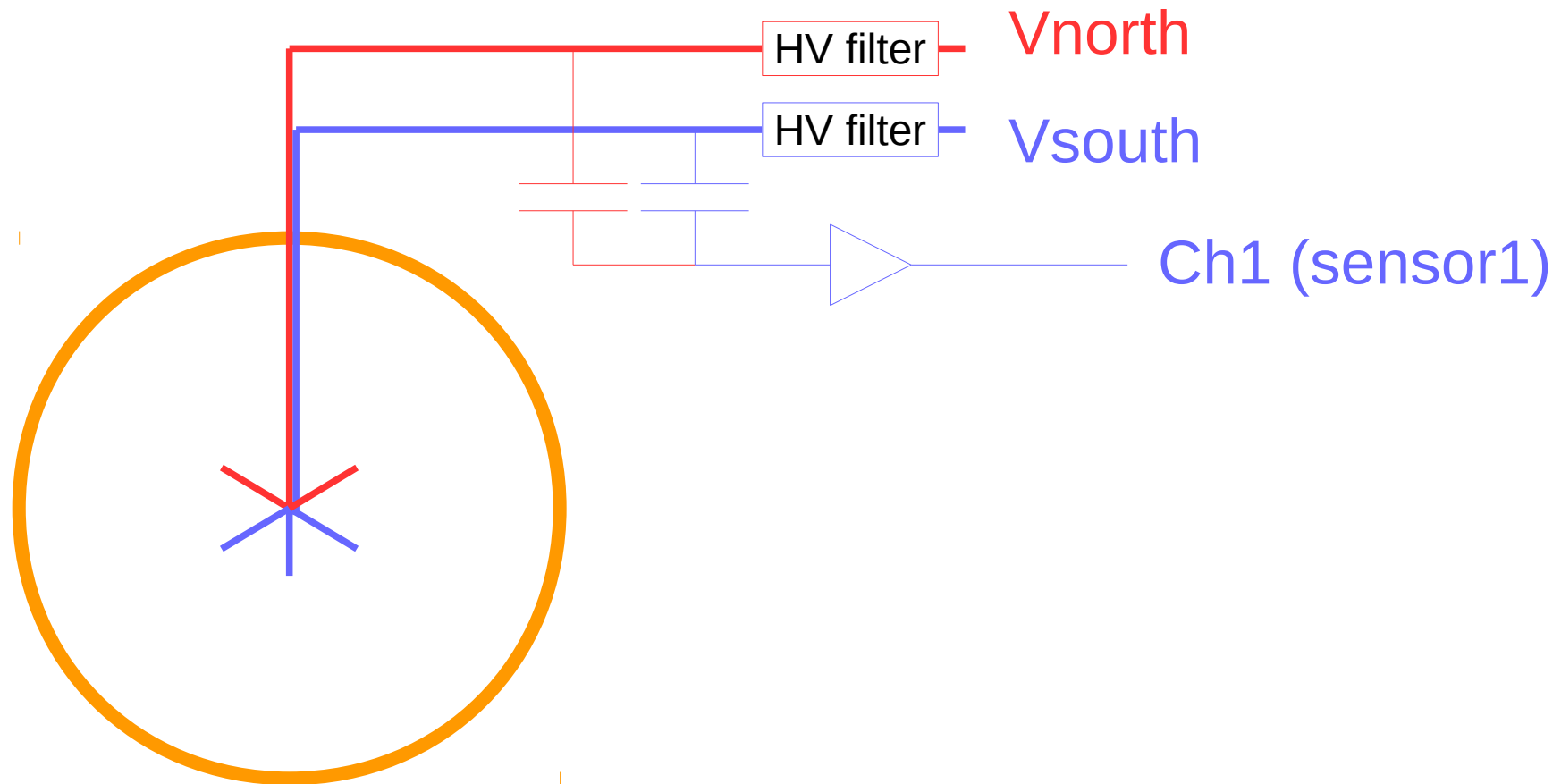
2ch Achinos in Q130

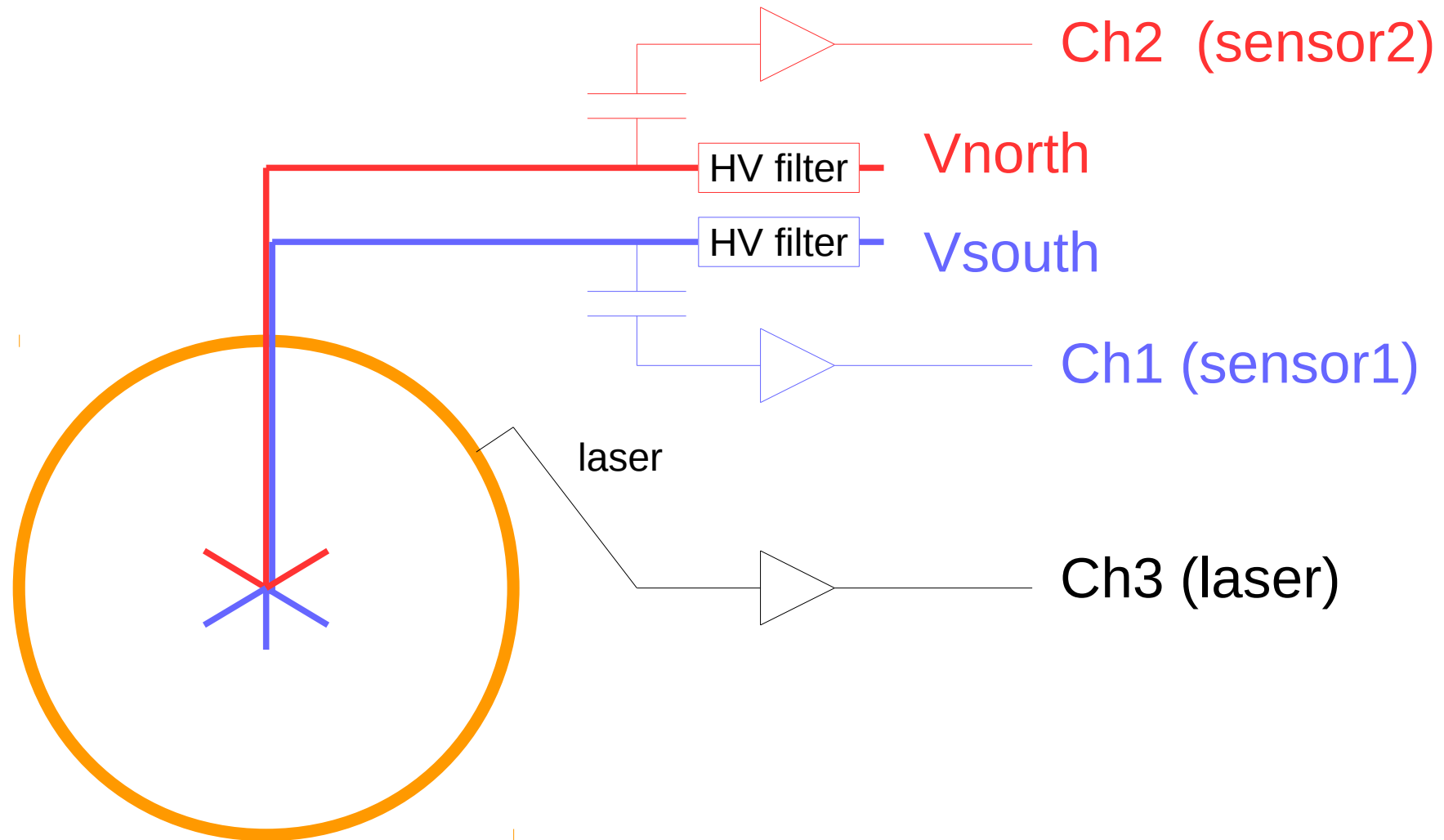
Philippe GROS
6th NEWS-G Collaboration Meeting
2019-06-12

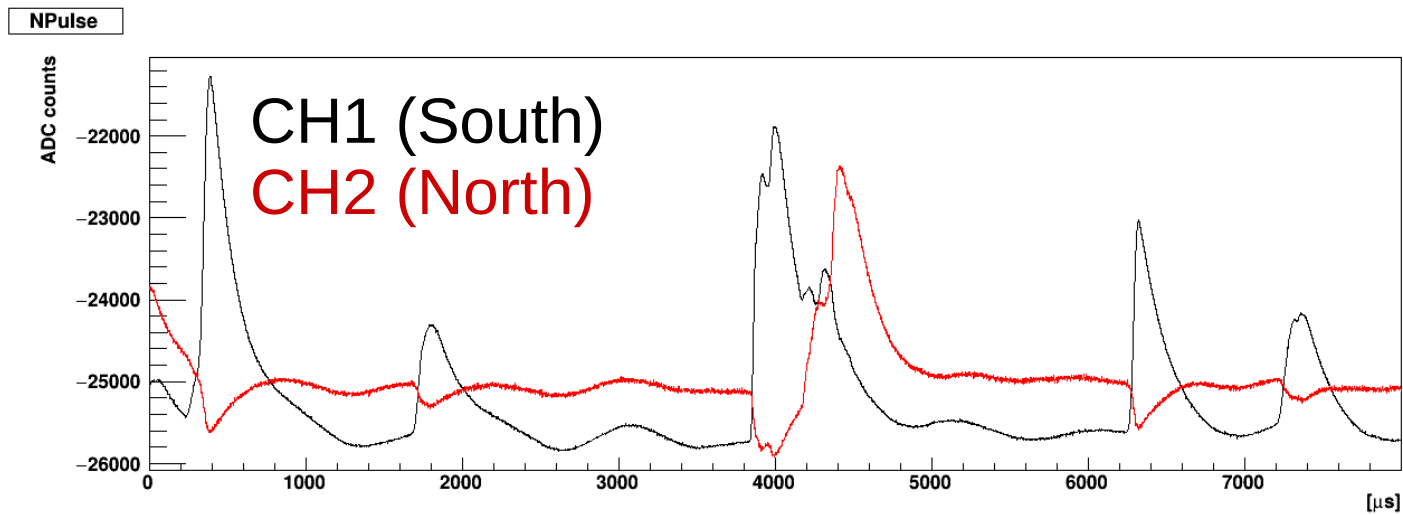
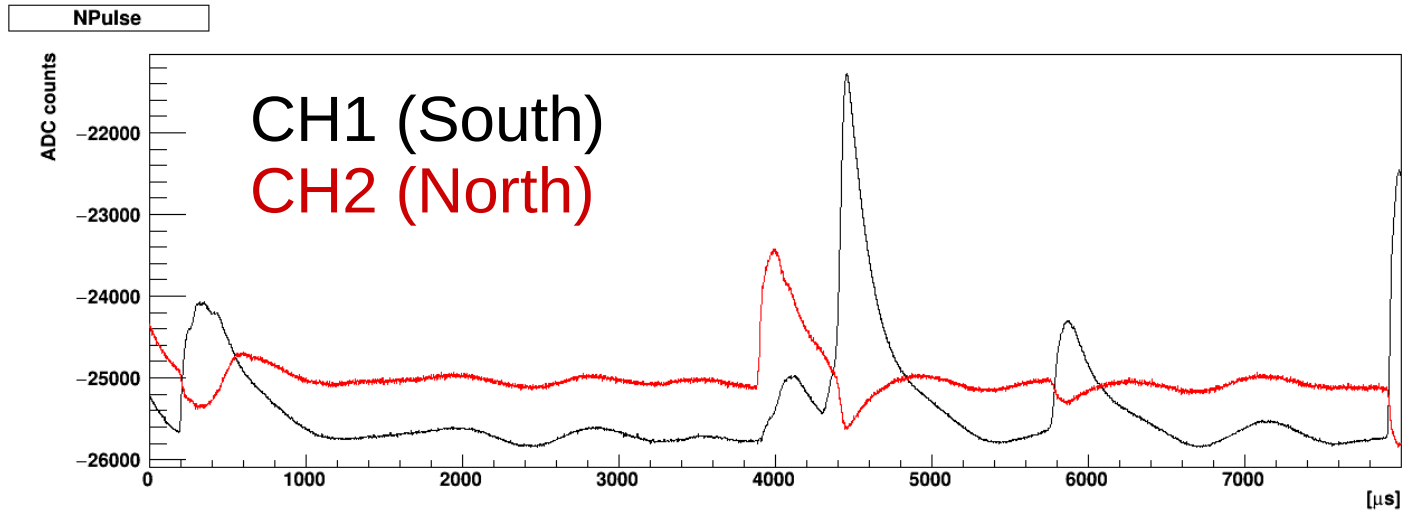
- 1mm SS balls
- Copper glue umbrella
 - grounded
- 2 HV wires
 - South (6 balls)
 - North (5 balls)



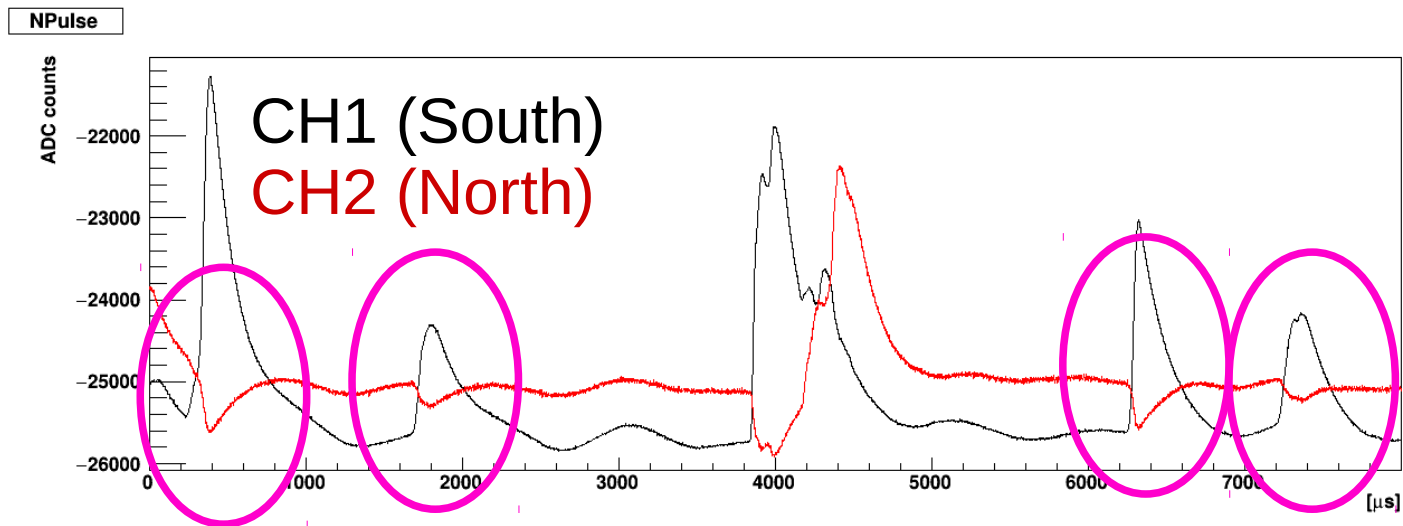
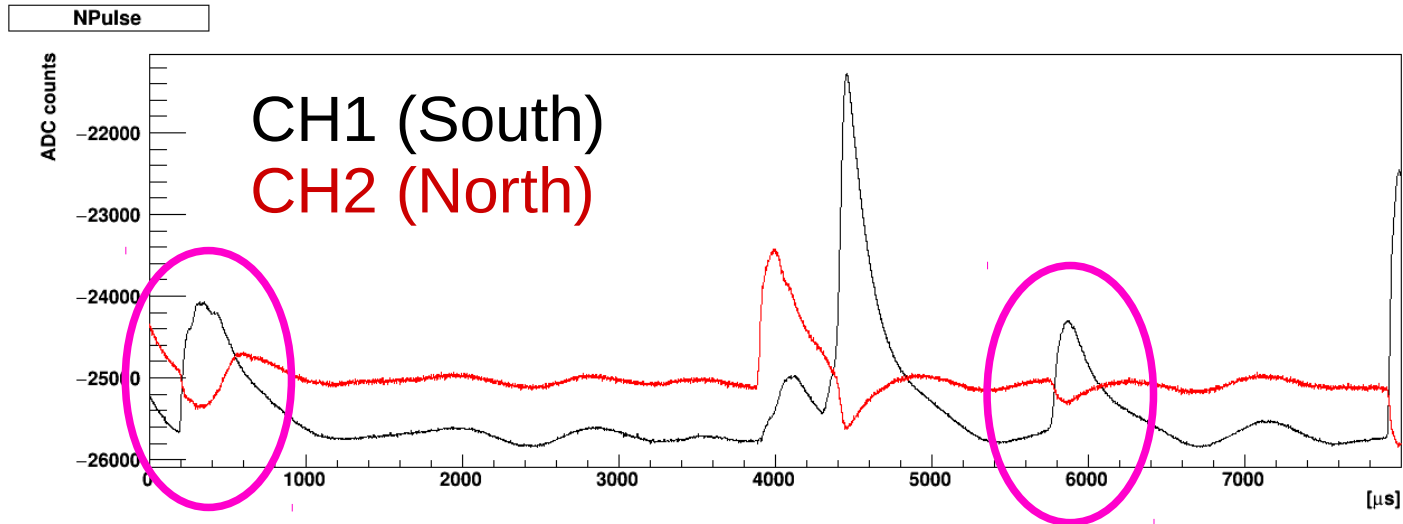
- 120cm inner diameter (same Saclay&Thessaloniki)
- Pump for SNOLAB
- Gas system shared with S30
 - possibility for getter & radon trap
- 2 CF40 nozzles
 - ^{55}Fe source
 - Laser feedthrough



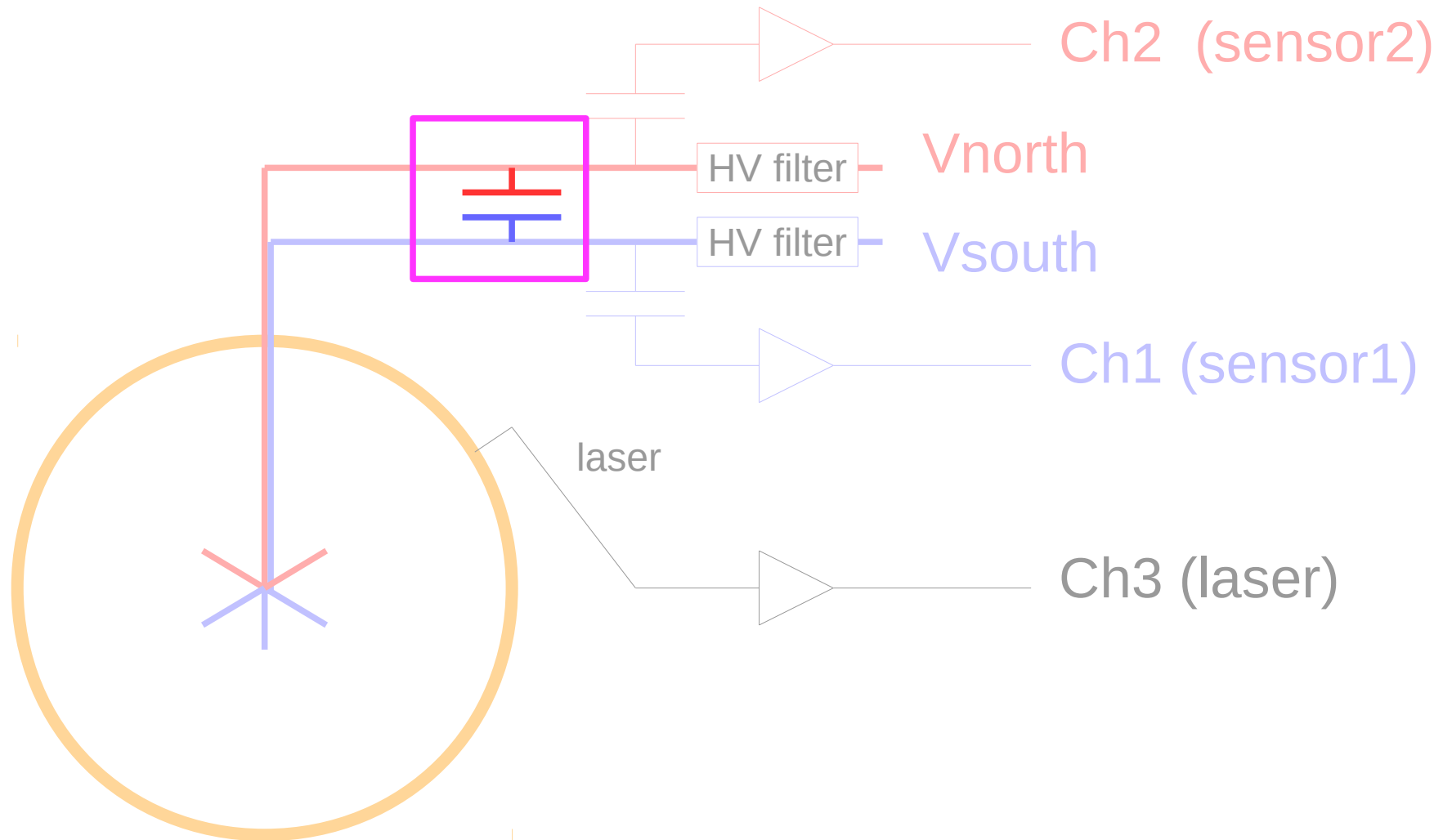




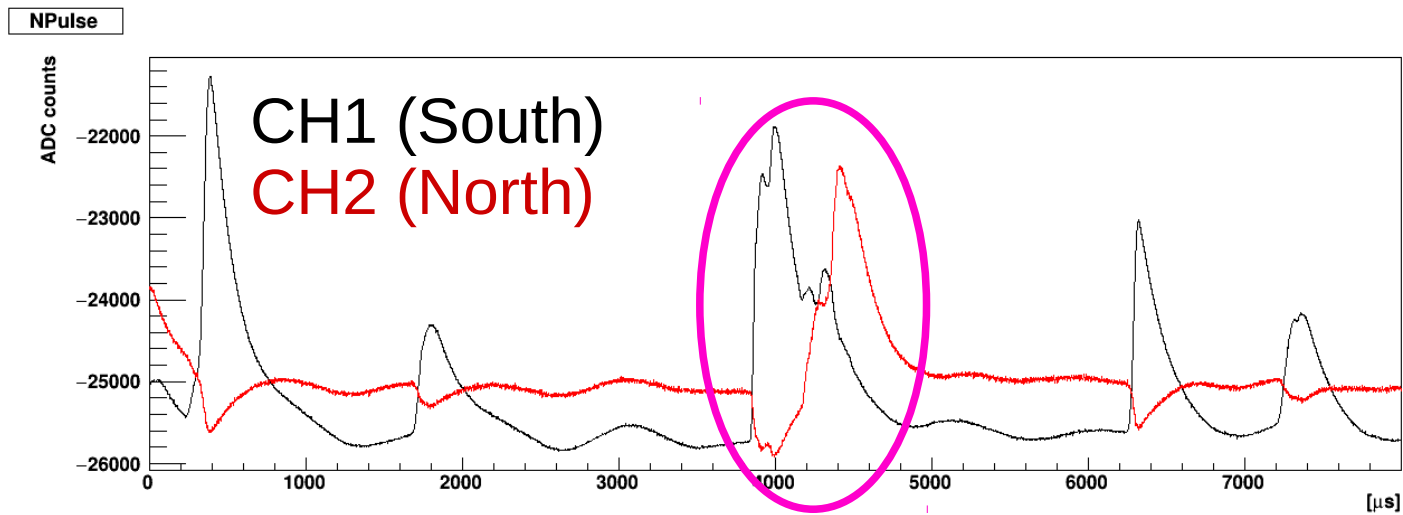
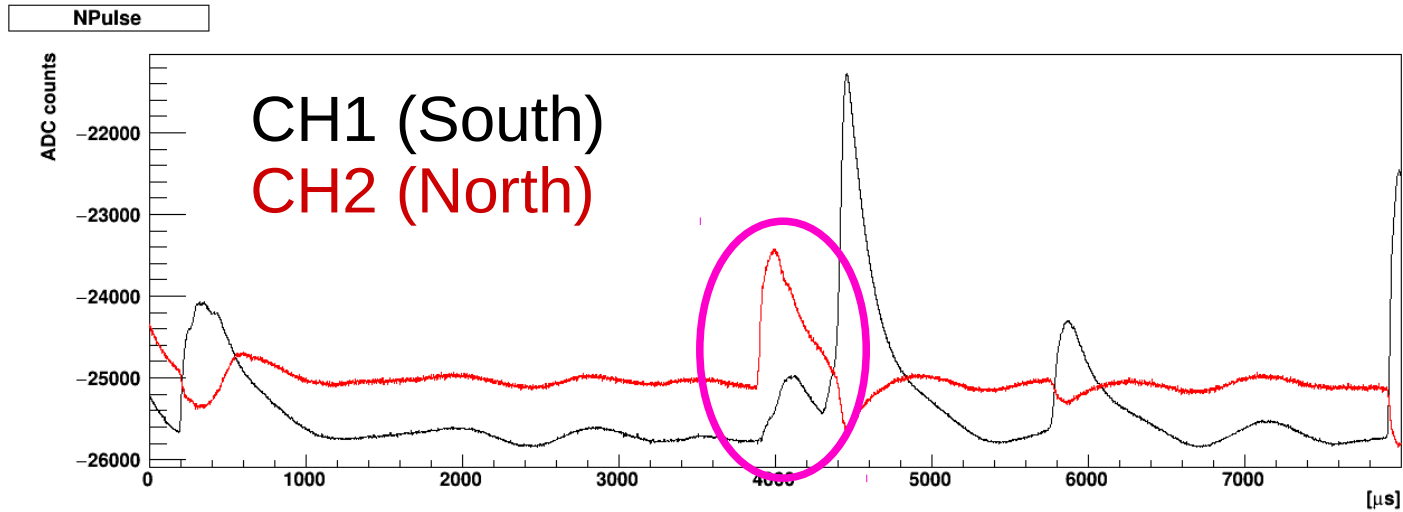
Anti-correlation (cross-talk)



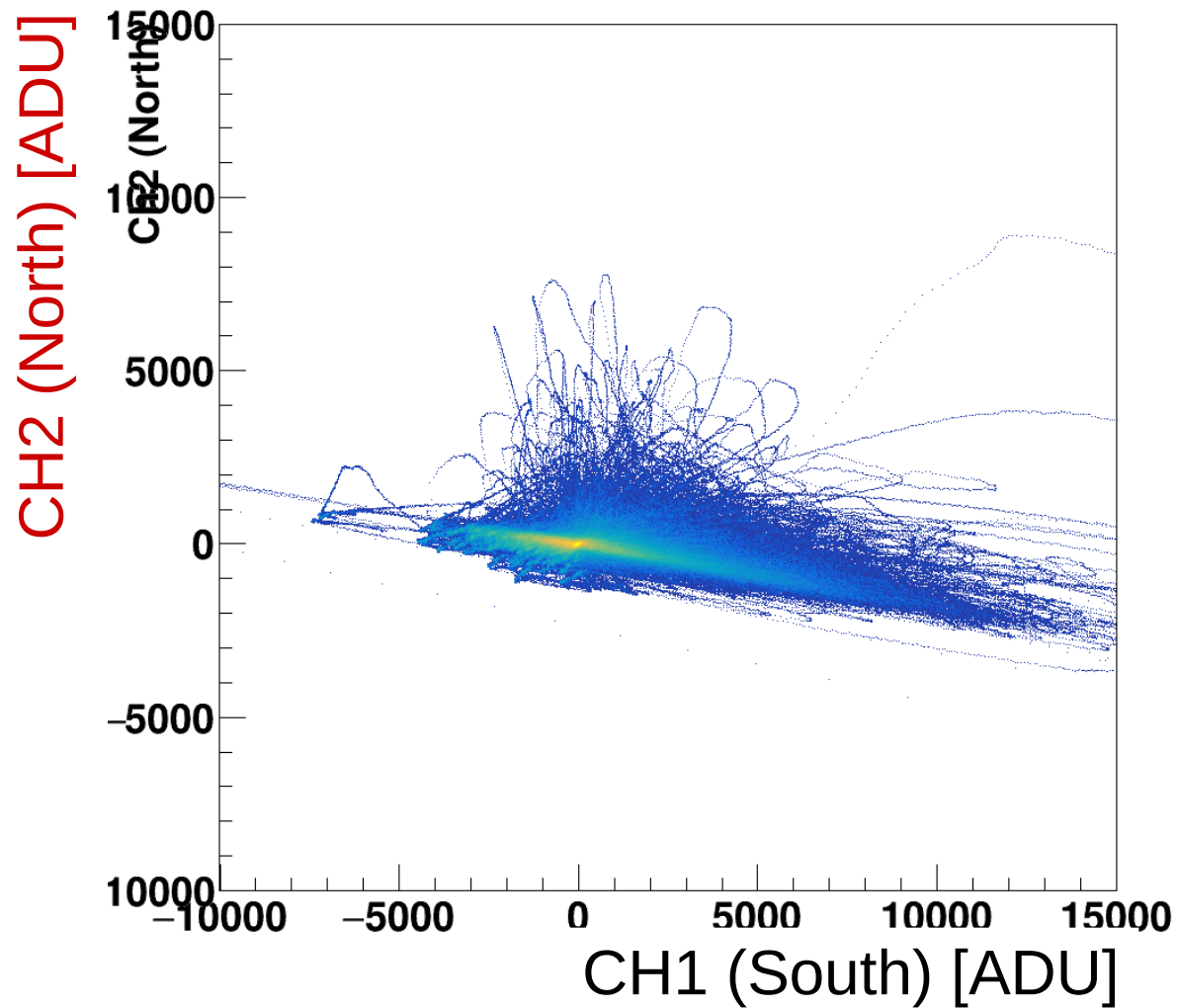
Capacitive coupling?



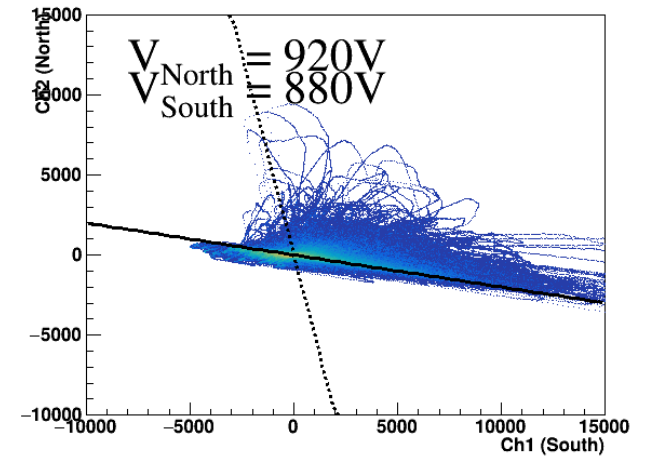
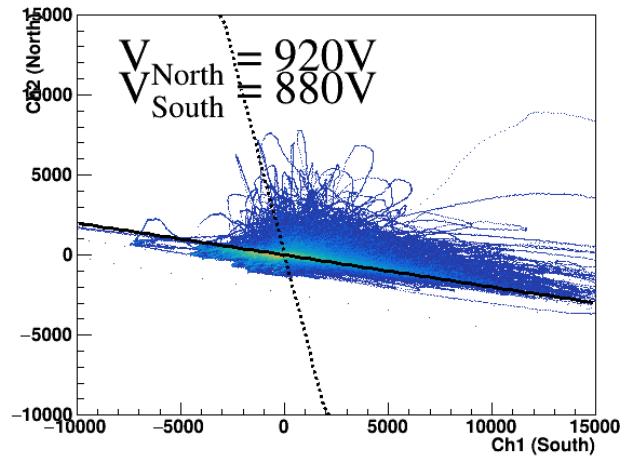
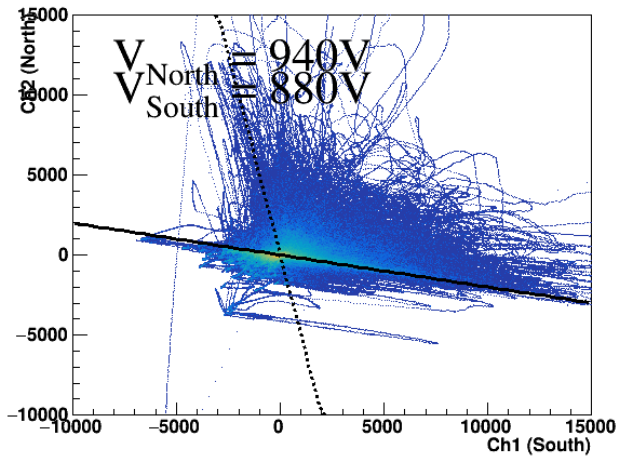
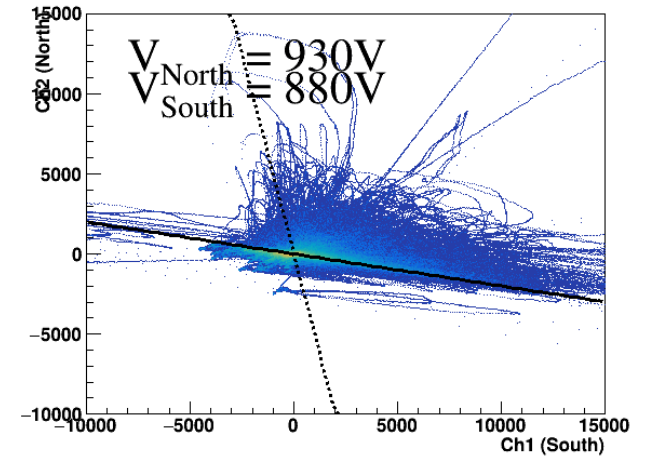
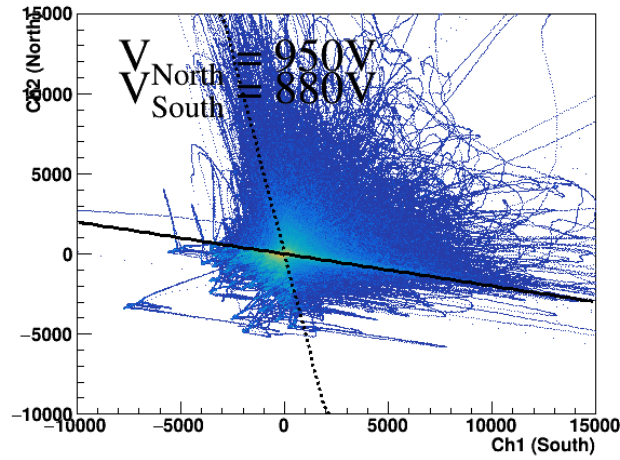
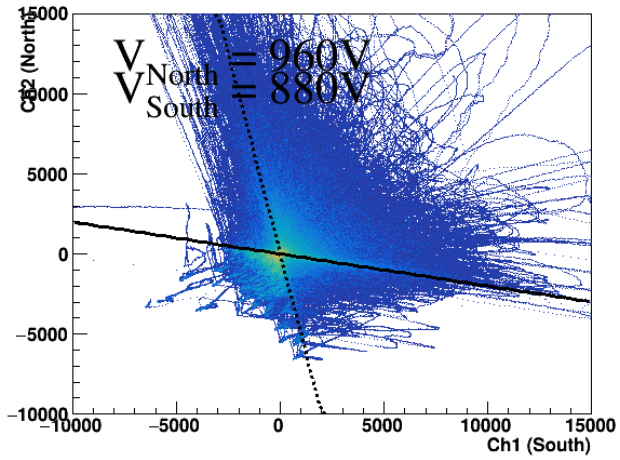
Correlation (track events)

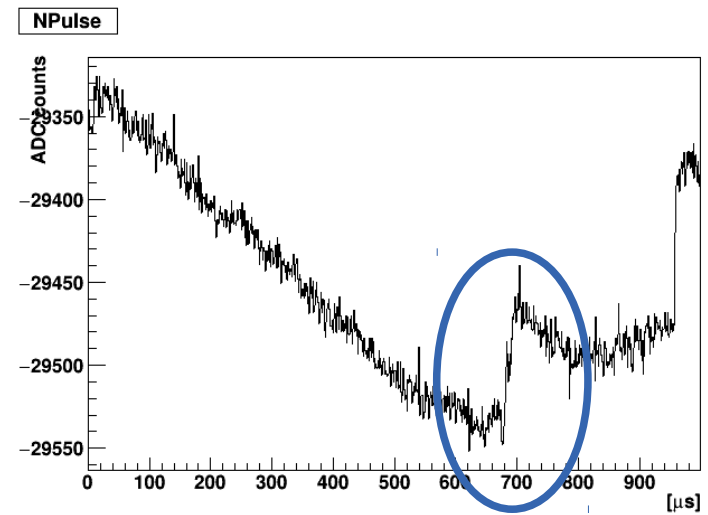
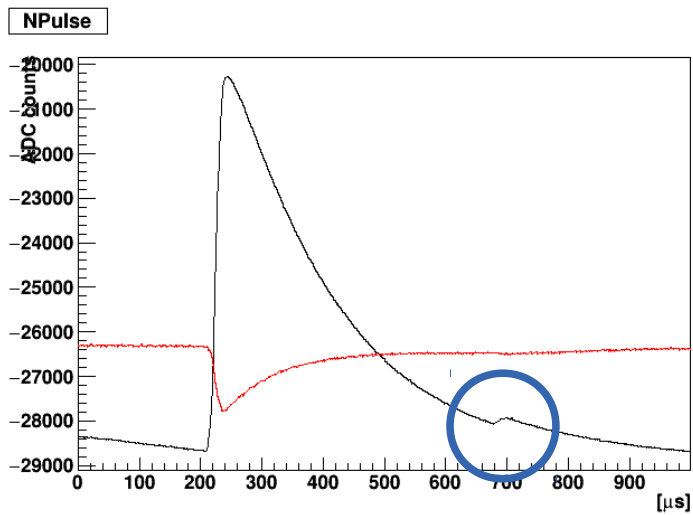
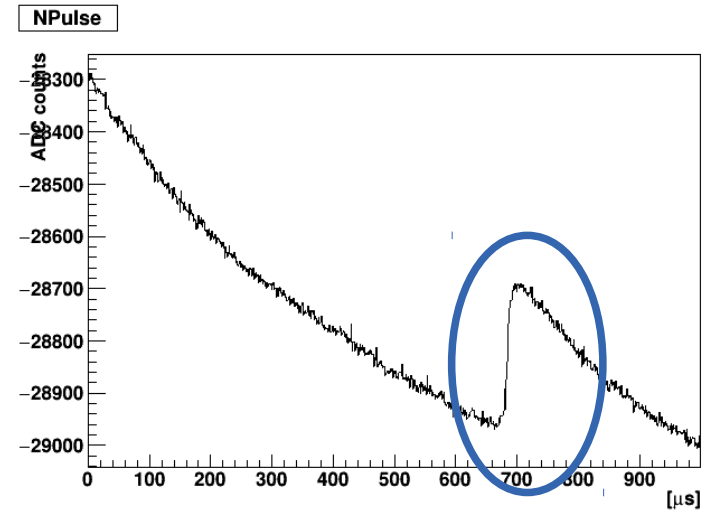
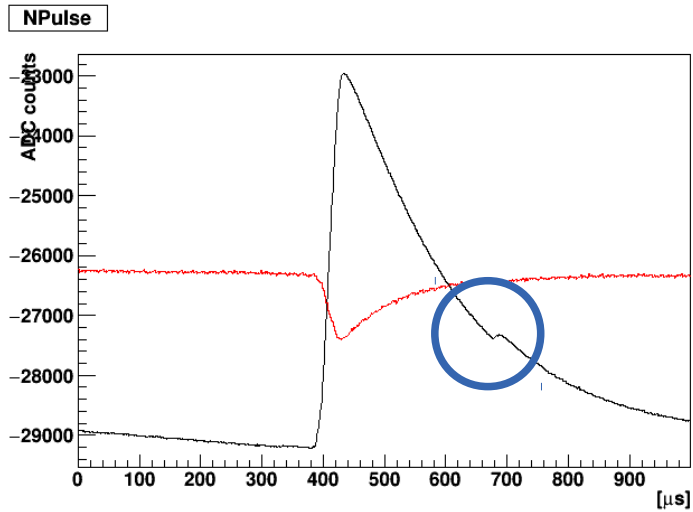


Comparison ch1-ch2



Changing V_{south}





- Achinos with 2ch successfully installed at Queen's
 - nice and easy, with remote supervision of Ilias
- 3 channel acquisition with SAMBA
 - nice and easy thanks to MiG's tutorial
- Cross-talk
 - probably in wires
- Good signal in “south hemisphere”
- Not so good up north
 - HV tuning required



