n-3He Work List

Seppo

Update Nov-26-14

DAQ:

* Status
* Check/improve logic –SF

Preamp:

* Mount new rotameters – SNS techs
* Label lines – SNS techs
* Amp cooling
  + interlock circuit – under construction
  + length of temp sensor wires, we need 4x40” now 43”
* Amps powering
  + power all
* Diagnose noise in amp in different conditions
* Asymmetry runs – needs SF and HV

HV:

* Check the home made HV source
* Test ion chamber HV with 200 V
  + Need SHV and MHV elbow connectors
* M1 HV test battery
* M4 HV test battery

M1:

* Noise measurement – grounding/HV

M4:

* Noise measurement – grounding/HV

Spin flipper:

* + RF waveform status
  + Check the rf path as it is now
  + Needs t0
  + Connect He supply/return lines to spin flipper
  + Test current reading from donate – noise - grounding
  + Isolate spin flipper from stand
  + Remove

Laser:

- test alignment plan

Polarimetry:

* Stand is ready
* We have interaction with the SNS 3He folks
* Eric has a protective beam cover for the polarimetry hole

Ion chamber:

* Tie down
* Remove

Beam scanners

* Scanning plan

Dirty DAC:

* Status

Slow Control:

* + Status
  + Pressure transducer for N2 cooling
  + Flow indicator for N2 cooling
  + Four temperature sensors RS-232
  + Pressure transducer for the SF He flow
  + Flow indicator for SF He flow
  + Many of these signals need to be set to give an alert and alarm
  + Two Bartington MAG-03 DAM flux gates, communication via RS-232
  + Fix the flux gate
  + Additional reading like; proton current reading - status

Housekeeping:

* At the end

Our schedule for post IRR:

* on 26th the official finding list
* week Dec 1
  + complete w IRR items
  + complete w SF testing
  + complete w ion chamber testing
  + Remove SF and ion chamber out for fault study – 1st know Fault Study date