

Logbook   Help   Login   Rotation   HMS

Make Entry

HMS Q1   HMS Q2   HMS Q3   HMS Dipole

PSU   Valves   LHe   LN2   Voltage   Interlock

# Status

# Magnet selector

**Hall Status**  
**Bad State**

0.0 MeV   0.00 uA

Quad 1  
Power Supply Off

Quad 2  
Power Supply Off

Quad 3  
Power Supply Off

Dipole  
NMR Off  
Power Supply Off

Primary  
PLC Status: OK

Secondary

High Momentum Spectrometer

4/8/2014 2:10:18 PM

Hall A 4K Supply Flow: 33.6 g/s  
Hall B 4K Supply Flow: 0.0 g/s  
Hall C 4K Supply Flow: 14.7 g/s

Momentum Input (GeV) 0.000000   Start   Off

Proton   Electron

Ramp All to Zero Amps

Input Ok

Q1 at Current   Q2 at Current   Q3 at Current   Dipole at Field

Magnets ON / OFF  
G1   G2   G3   Dipole  
Spectrometer is Off

Using Non-Standard Tune

4K Return 299.30 K   297.10 K   4K Supply   4K Supply   4K Return 299.00 K   300.10 K

ESR

Ln2 Level 0%   Ln2 Level 0%   Ln2 Level 0%   Ln2 Level 51%

Meter   Meter   Meter   Meter

RB: 0.0 A   RB: 0.0 A   RB: 0.0 A   RB 0.8730324 T  
Set: 604.0 A   Set: 497.4 A   Set: 180.6 A   Set: 1.1461600 T

0 Gauss   0 Gauss   0 Gauss   0.0 A

SOS Angle 146.77   HMS Angle 79.99

Print

# Main screen

Logbook Make Entry Help Login Rotation HMS

PSU Valves LHe LN2 Voltage Interlock

### Quad Power Supply

4/8/2014 2:13:00 PM

## HMS Q3 Power Supply

Reset Power Off

**Set 000000 ADC 00000**

Current Input Mode Set Current: 180.6192 Amps

Remote PSU is Off

Power Off

I True: 0.00 Amps

0.53 Amps

3.000 Output Voltage

Setup RS

Hardware Status

- 480 power
- Interlock Sum
- Main Power

Print

Quad Valves

4/8/2014 2:13:00 PM

### HMS Q3 Valves

TL LN2 Shield: 298.6 K

LN2 Supply LN2 Return

300 K He Gas 3.3 ATM 1.0 g/s

Dipole

297.1 K 14 g/s LHe Supply

Current Leads BV 44.9 %

Warm Return 1.5 ATM 305 K 0 g/s

Cold Return

Valve 1 99.5 % Valve 3 -5.9 %

Valve 4 49.9 %

Valve 6 -0.1 % Valve 8 0.1 %

Valve 19 -0.1 %

Mix 96.9 %

2 l/min 0 l/min 1 l/min Neck

LN2 Level 0.0 % Level Meter is OFF

1.094 Bar.

Valve Control Keyswitch PLC

ESR Data

LHe Level 0.0 % Level Meter is OFF

1.194 Bar.

292.8 K 294.0 K

293.8 K 296.8 K

0.53 Amps

JT Setup Cooldown

Print

Quad He Temps

4/8/2014 2:13:00 PM

### HMS Q3 He Temp.

Helium Pressure 1.194 Bar.

Vacuum Pressure 1.80E-4 Torr

Pirani Gauge: 0.254 Penning Gauge: 1.80E-4

0.53 Amps

Supply PT-9 810 293.81 K

Coil Center PT-5 293.85 K

Yoke Top PT-3 293.91 K

Coil End PT-7 293.80 K

LN2 Level 0.00 %

LN2 Level 0.00 %

Base 295.52 K

Return 296.84 K

Yoke Top 293.61 K

Coil 4 117.83 K

Coil 1 51.20 K

Coil 3 77.88 K

Coil 2 85.45 K

Average 293.79 K

PT-21 & 22

PT-11 & 12

PT-1

Update CG Temp. every 2900 ms

PT-100's

- Max. 293.91
- Avg. 293.79
- Min. 293.61

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Quad Ln2 Temps

4/8/2014 2:13:00 PM

### HMS Q3 Ln2 Temp.

Nitrogen Pressure 1.094 Bar.

Vacuum Pressure 1.80E-4 Torr

Pirani Gauge: 0.254 Penning Gauge: 1.80E-4

0.53 Amps

Supply PT-13 & 14 292.80 K

Return PT-15 816 294.00 K

Outer PT-17 293.83 K

Inner PT-19 293.00 K

LHe Level 0.00 %

LN2 Level 0.00 %

Base 295.04 K

Average 293.73 K

Maximum 295.04 K

PT-23 & 24

PT-18 293.83 K

Outer

Inner 293.00 K

PT-20

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# Typical Magnet screens

# Rotation screen

**Hall Status**  
**Bad State**  
 0.0 MeV 0.00 uA

Quad 1  
 Power Supply Off

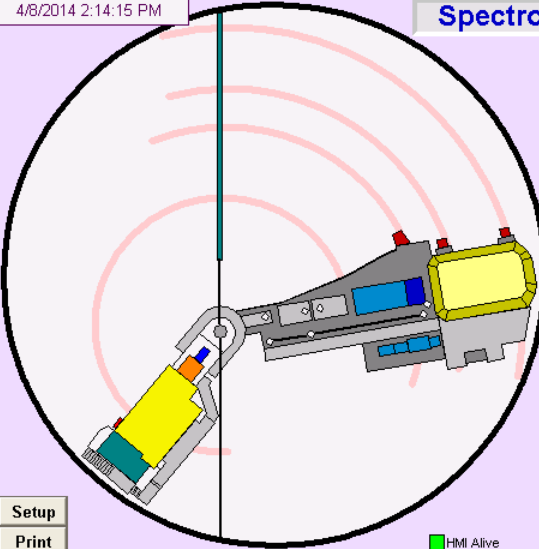
Quad 2  
 Power Supply Off

Quad 3  
 Power Supply Off

Dipole  
 NMR Off  
 Power Supply Off

Primary  
 PLC Status: OK  
 Secondary

**Spectrometer Rotation**  
 4/8/2014 2:14:15 PM



**Spectrometer Rotation**

<b>HMS Angle</b> 79.99 Min: 15.20 Max: 83.00	<b>SOS Angle</b> 146.77 Min: <input type="radio"/> High Max: <input type="radio"/> Low
<b>HMS Selected</b>	
<b>Rotate To:</b> 80.00	Type in angle Press Enter
<b>Start</b>	<b>Reset</b> <b>Enable</b>

Power On  
 Local  
 Remote  
 HMS at Angle  
 HMS Forward  
 HMS Reverse  
 HMS Forward Prox.  
 HMS Reverse Prox.  
 HMS Drive Controller

UPS On  
 Auto  
 Manual  
 SOS at Angle  
 SOS Forward  
 SOS Reverse  
 SOS Forward Prox.  
 SOS Reverse Prox.  
 SOS Drive Controller

HMI Alive

HMS Offset: 0.00 SOS Offset: 0.00

Setup Print