

## Preparation for nTMM experiment

### Status

- 3 Al-6061 tubes are ordered Monday this week
- Materials Al-6061 for endcaps is being ordered
- mu-metal shield identified by Chris C. – sending me quote for purchase. 2-4 weeks delivery.
- After COMSOL simulations Chris suggests use AWG 18 wire (Remington)
- Parameters of current supply for magnets (x2). should be interfaced with GP-SANS DAQ, providing range 20-30 Gauss, accuracy/stability  $10^{-4}$  that is  $\pm 25$  mG (expected FWHM of resonance 200 mG)  
Max used voltage 65 V @ 30 Gauss (max of device 100V)  
Max used current 2.5 A @ 30 Gauss (max of device 3.0 A)  
Nominal power 156 W (max power of device 300W)

### Questions

- Is power supply with 100 V satisfy HFIR hall safety requirements?
- Is it possible to find /use such power supplies (2) at ORNL, HFIR?
- ORNL engineers said OK 1/8" wall tubes. We need approval for the whole design
- If nominal pressure 1.25 psia, will be 2.5 psia safety valve appropriate

The registrations for the upcoming HIBEAM/NNBAR general meeting at the European Spallation Source (ESS) are now open. At Lund, December 14-15.

<https://indico.esss.lu.se/event/3355/>