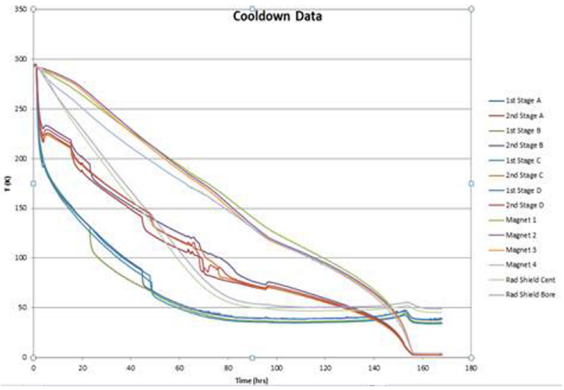
Larger Scale Cryogen Free Magnet Systems

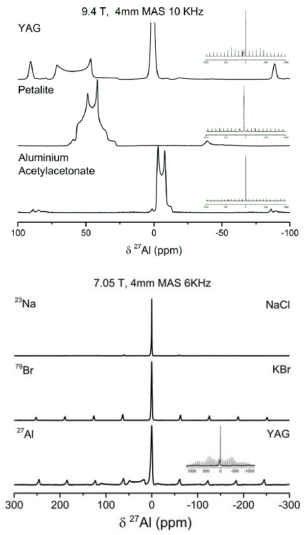
Cryogenic 2.6 Tesla CFM Mu3e System

- 1 m diameter room temperature bore accessed by steel swing doors
- 2.6 T superconducting solenoid magnet
- Base homogeneity of <0.12% over a 1.3 m axial length
- Cooled by Four 1.5 GM Cryocoolers
- 27 tonne passive shield reducing stray field to 5 mT at 1 m



The magnet produces a homogeneous field profile over a large volume (Ø70cm x 200cm) The field is generated using four separately energisable circuits. Subtle changes in the field profile are possible by varying the currents in the four circuits.

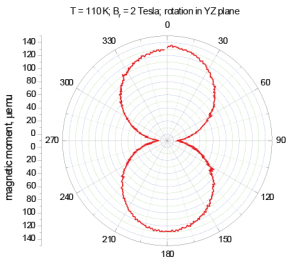
Cryogen free Solid State NMR



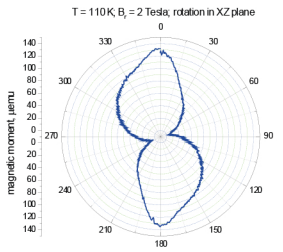
500 MHz / 600 MHz Wide bore and Narrow bore Magnets

Model	CFM-600 MHz
Maximum central operating field at 4K	14.1 Tesla
Equivalent Maximum Proton frequency	600 MHz
Shimmed central homogeneity	1 ppm over 10 mm sphere HHLW
Cryo-shims	Z1, Z2, X, Y, C2, S2, ZX, ZY
Long-term drift rate	≤ 0.1 ppm/hr
Room temperature bore	54 or 89mm diameter
Field Sweep	0 T to 14.1 T
Typical initial cool-down to operating temperature	70 hrs / 100 hrs
Actively Shielded	Yes
Field sweep coil	Optional

9T-2T-2T Vector System with VSM



Isotropic in-plane



Anisotropic out-of plane

- Completely Cryogen-Free
- Compatible with variety of applications
- Vertical magnetic field up to 9 Tesla
- Arbitrary 3D field rotation up to 2 Tesla
- VTI temperature range 1.6 K to 400 K
- Sample in isolated static gas chamber
- High-sensitivity VSM

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