

Complete Bruker Avance Imaging System and spare modules available

A Bruker Avance imaging system at Colorado State University was recently de-commissioned and is available. At the time of shut down it was a fully operational imaging system running at a proton frequency of 100 MHz. The system purchased in 2002 was a previously owned magnet and a new Avance system representing the state of art from Bruker at that time. When the system software was upgraded to PARAVISION 4.0, the host computer was also upgraded to an HP Z420 running CentOS.

The magnet is a B-C 47/30, with a room temperature bore of 305mm, operated at 2.35T, half the design field-strength.

The gradient system:

- B-GA20/C 202mm ID shielded gradient capable of 200mT/m, suitable for routine volume imaging
- B-G 6 60mm ID shielded insert gradient capable of 950mT/m, suitable for micro imaging and diffusion studies
- Copley 265 3 channel gradient amplifier rated at 300V and 200A
- Neslab water chiller
- B-GU2 gradient interface with software controlled 3 time constants per axis for gradient pre-emphasis and 3 time constants per axis for B0 pre-emphasis.

The RF system:

- 2 Dressler LPPA 13010 1 kW amplifiers
- Dual broad band frequency synthesizer
- Preamp front end
- Bruker BioPRK 100 200/154 linear birdcage coil
- Bruker BioPRK 100 REC only surface coil set up to be optionally paired with the larger volume coil
- Bruker BioPRK 100EPI mim 35/59 small linear volume coil
- Doty Scientific 1093 34mm ID small linear volume coil.

Please direct inquiries of interest for the entire system, or separate components, to:

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