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BROAD BAND IMAGER SPECTROMETER

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The NMR system for imaging and spectroscopy built at the IFQSC, Physics Department is described and its performance and design are shown.

The system in its present form is based on some home built electronics which includes a versatile pulse programmer, arbitrary shape pulse modulator, 12 bit two channel digitalizer and broad band receiver. The above is complemented by commercial RF synthesizer and power amplifiers. The control acquisition and processing software runs in an IBM AT compatible microcomputer. The broad band nature of the system allows operating at both, 2 Tesla using an Oxford 30 cm superconducting magnet for small animals imaging and spectroscopy, and also at 0.05 Tesla for full body imaging of humans using a 4 coil Hitachi resistive magnet(*).

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