

## Pulse Sequences

The staff and users are developing pulse sequences to increase throughput and information content for structure determination, screening and metabolomics.

NMR pulse sequence developments available in HWB-NMR include:

- projection angle data collection and processing, substantially reducing data acquisition times for protein assignment and structure determination.
- Fast 2D NMR methods for metabolite analysis including J-resolved spectra and HADAMARD TOCSY.
- New pulse sequences for dynamic nuclear polarization are being developed and tested using the HyperSense system.
- Improved ligand screening methods including SALMON are being developed and tested with a range of therapeutic target proteins.

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