



Dynamical Decoupling in Distance Measurements by Double Electron-Electron Resonance

By Soetbeer, Janne Marie

Condition: New. Publisher/Verlag: Springer, Berlin | Janne Marie Soetbeer determines the optimal dynamical decoupling (DD) scheme for efficient reduction of electron spin coherence loss in model systems for spin labelled biomolecules depending on their particular relaxation behavior. Extending the n th order DD scheme to double electron-electron resonance (DEER) experiments require the addition of multiple pump pulses for 1. Incomplete excitation of pump spin packets introduce signal artefacts which are minimized by pump pulse optimization including linear-chirp and asymmetric hyperbolic secant pulses. Prolonging the dipolar evolution time with decreased signal artefact allows to extent the measurable interspin distances in biomolecules which were otherwise not accessible due to spin echo relaxation. | The Spin Hamiltonian.- Pulsed EPR Experiments.- Relaxation Processes.- Dynamical Decoupling.- Model Systems. | Format: Paperback | Language/Sprache: english | 211x151x7 mm | 74 pp.

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