

Students' Annual Seminar

Development of Solid State NMR methods to probe one-bond distances at fast Magic-Angle Spinning

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Dipolar couplings are the probes of internuclear distance between two nuclei. Rotational-Echo Double Resonance (REDOR) is a standard solid state NMR technique to probe heteronuclear dipolar couplings and thereby distances. However, REDOR can only be used to study weak dipolar (couple of kHz) couplings. In this talk, I will present the modifications to REDOR which will allow probing of stronger dipolar couplings (couple of tens of kHz) at fast MAS frequencies. These one-bond dipolar couplings provide experimental order parameters which are indicators of protein backbone fluctuations.

Thursday, Apr 27th 2017

4:00 PM (Tea/Coffee at 3:45 PM)

Seminar Hall, TCIS