

Colloquium

The Fast and Furious of NMR: 100 kHz MAS and DNP for the Study of Biofilms, Ligament Damage and Protein Dynamics in Realistic Outer Membranes

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Solid-state NMR has developed into a useful tool for medically relevant studies. Fast magic-angle-spinning (MAS) made it routine to study large proteins and their complexes, and dynamic nuclear polarisation enables detection of minor components in disease-related tissue or of molecular switching in signalling proteins. Using these technological advances, basic construction principles of *Bacillus subtilis* biofilms are uncovered, and ligament damage in the course of the condition Alkaptunoria.

Thursday, Feb 8th 2024

16:00 Hrs (Tea / Coffee 15:45 Hrs)

Auditorium, TIFR-H