

TIFR Centre for Interdisciplinary Sciences

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Seminar

Macromolecular structure and dynamics in crowded environments

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Label-free methods to obtain hydrodynamic size from diffusion measurements are desirable in environments that contain multiple macromolecular species at a high total concentration. One example of this is the crowded cellular environment.

describe experiments involving will polymers, surfactants, nanoparticles or proteins in simple multicomponent model systems that highlight the utility of the pulsed-field-gradient NMR technique in soft matter, and show that the spectral separability of different chemical components enables quantitative statements especially when coupled with other complementary techniques - about macromolecular dynamics, size, aggregate formation and crowding in soft materials.

Tuesday, Jun 21st 2016

11:30 AM (Tea/Coffee at 11:15 AM)

Seminar Hall, TCIS