## Schedule for NMR Meets Biology 4 Dec 16-21, Khajuraho, India

	COLOR CODES	Teaching	Research Talks	Hyperpolarisation Session	Special Session	Tutorials	
Time	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	Time
before 08:30				BREAKFAST			before 08:30
08:30-09:30		K. Ivanov Introduction to NMR	A. Bockmann Sample preparation and sequential assignments in solid- state NMR	Free Time	D. Huster Order Parameters for studying membrane protein dynamics	T. Prisner Basic of EPR Spectroscopy	08:30-09:30
09:30-9:45				COFFEE BREAK	٢		09:30-9:45
09:45-11:15		K. Ivanov NMR Introduction Bloch and Solomon Equations	M. Ernst / B. Meier Superoperators, Introduction to Redfield Theory and the master equation	B. Reif Motional models for intepreting relaxation	S. Bharathwaj Using RDCs for understanding dynamics in solution NMR	T. Prisner Advances in EPR Spectroscopy	09:45-11:15
11:15-11:30				COFFEE BREAK	ς		11:15-11:30
11:30-13:00	Arrival	K. Ivanov BPP Theory	M. Ernst / B. Meier Master Equation (contd), Relaxation pathways	P. Schanda Solid-state NMR measurements of (bio-) molecular dynamics	S. Bharathwaj Tutorial RDC calculation and Interpretation	Shimon Vega Basis of Dynamic Nuclear Polarisation	11:30-13:00
13:00-14:00				LUNCH			13:00-14:00
14:00-16:00		P. Vallurupalii Bloch McConnell Equations and their use in solution NMR	Free Day	M. Ernst / B. Meier Tutorial Relaxation Pathways	P. Schanda Tutorial Biomolecular Relaxation Data modelling	K. Ivanov Singlet-state NMR experiments with pairs of nearly equivalent nuclear spins S. Han Developments in Dynamic Nuclear Poalrisation	14:00-15:00
16.00-16.30				COFFEE BREAK			16:00-16:30
16:30-18:00	P. K. Madhu Introductory Talk 30 min B. Meier Introductory Talk II	Anja Bockmann Solid state NMR investigations of hepatitis B virus structral proteins Gopalswamy Mohanraj Small molecula based targeting of AML1-TEO digomerization as a potential strategy for anti-	Free Day	Sujoy Mukherjee NMR spin relaxation mesurements and MD simulations reveal tuning of conformational entropy in oncogenic mutations of p53's DNA binding domain Ashok Sekhar Elucidating the mechanism of interaction of Hsp70 with client proteins	Tata Gopinath Probing membrane protein ground and conformationally excited states using dipolar and J-coupling mediated MAS solid state NMR experiments V S Manu Sensitivity enhancement via triply compensated pulses for high-field spectrometers	<b>G Rajalakshmi</b> Optical magnetometry techniques for Iow-field NMR	16:30-17:15
		Pramodh Vallurupalli Studying conformational dynamics of proteins in the solution state Mandar Deshmukh Small RNA mediated gene silencing in plants: Lessons for knockdown in gene theraputics		Jeetender Chugh Dynamical modes in RNA binding protein allow for shape- dependent RNA recognition Venus Singh Mithu Application of NMR spectroscopy in studying self-assembly and membrane interaction of amphiphilic inonic liquids	S Bharathwaj Influence of aromatic side-chains in biomolecular structure and dynamics Vinesh Vijayan Structural basis for increased microtubule localisation of EB1 by GTP and SxIP	J. Matysik Photo-CIDNP in liquid and solid state	17:15-18:00
	COFFE	E BREAK	-		COFFEE BREAK		
18:10-19:40	Vipin Agarwal Solid state NMR method development at TIFR Hyderabad Shobhana Kapoor Biophysical insight into the role of membrane dynamics in diseases	Harish Vashisth Probing protein dynamics using NMR H/D exchange, and atomistic simulations		Special Session Decoupling in solid state NMR; NMR of Quadrupolar nuclei; Biophysics of amyloids	Gil Goobes NMR study of biometarials - From bone protein structure to minerals in mechanically different bones	Ashutosh Kumar Structural basis of recognition between Plasmodium falciparum and Human sumoylation machinery S. K. Upadhyay Specific nucleic add recognition sites by RNA binding proteins	18:10-19:15
	Sponsor Talks: Sebastian	Bernd Reif Protein aggregation investigated by NMR spectroscopy			Neeraj Sinha NMR Based Metabolomics Mirroring Heterogeneous Biology of Acute Respiratory Distress Syndrome (ARDS)	Kaustubh R. Mote	
19:40-onwards				DINNER			19:40-onwards