

NMR Discussion Group Christmas 2012 Meeting

Wednesday 12th December 2012

Institute of Child Health, 30 Guilford Street, London WC1N 1EH

Morning session chair: Craig Butts, University of Bristol

- 10.00 – 10.25 Registration and refreshments
- 10.25 – 10.30 Introduction and welcome
- 10.30 – 11.10 **Teodor Parella, *Universitat Auto`noma de Barcelona***
On the Accurate Determination of the Sign and the Magnitude of Small Heteronuclear Coupling Constants in Small Molecules
- 11.10 – 11.45 **Peter Howe, *Syngenta Limited, Bracknell, UK***
One-bond Proton-Carbon J-couplings: Useful Information for Xenobiotic Metabolite Identification
- 11.45 – 12.10 **Smita Odedra, *University of Glasgow***
Improved Background Suppression in ^1H MAS NMR using Composite Pulses
- 12.10 – 12.45 **John Morton, *University of Oxford***
2012 BRSG-NMRDG Prize Winner for Excellent Contribution to Magnetic Resonance by an Early Career Researcher
Electron and nuclear spin qubits in the solid state
- 12.45 – 14.00 Buffet Lunch

Afternoon session chair: Robin Harris, University of Durham

- 14.00 – 14.10 NMRDG Business
- 14.10 – 14.45 **Yaroslav Khimyak, *University of East Anglia***
Understanding Complex Heterogeneous Materials using Solid-state NMR: Structure and Dynamics
- 14.45 – 15.20 **Tran Pham, *GlaxoSmithKline, Stevenage, UK***
Solid-state NMR Analysis of Pharmaceuticals
- 15.20 – 15.45 **Scott Sneddon, *University of St Andrews***
Exploiting the ^{31}P Chemical Shift Anisotropy of Aluminophosphates
- 15.45 – 16.25 **Jeremy Titman, *University of Nottingham***
Proton Shift Anisotropies in Solids: Measurement, Calculation and Applications
- 16.25 – 16.30 Closing remarks
- 16.30 - Refreshments and departure
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