

Programme

Monday		Title	Location
14:00 – 14:30	Lecture I DC	Basic Principles of EPR Spectroscopy	Chemistry G.08
14:30 – 15:15	Lecture II DC	Isotropic (fluid solution) spectra	Chemistry G.08
15:15 – 15:45	<i>Tea/Coffee</i>		
15:45 – 16:30	Lecture III DC	Meaning of hyperfine interaction	Chemistry G.08
16:30	Leave via the ground floor lab	for orientation	Laboratory

Tuesday	DC/AdB/FT/MS/SL/SC/LL/GDR	Title	Location
9:00 – 10:00	Lab I Tuning the spectrometer Group A (E500 S-band) Group B (EMX X-band) Group C (E580Q/S Q-band) Group D (EMX-micro X-band) Group E (EasySpin)	Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Simulation of isotropic spectra	Laboratory Laboratory Laboratory Laboratory Laboratory
10:00 – 11:00	Lab II Group B (E500 S-band) Group C (EMX X-band) Group D (E580Q/S Q-band) Group E (EMX-micro X-band) Group A (EasySpin)	Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Simulation of isotropic spectra	Laboratory Laboratory Laboratory Laboratory Laboratory

11:00 – 11:15	<i>Tea/Coffee</i>		
11:15 – 12:15	Lab III Group C (E500 S-band) Group D (EMX X-band) Group E (E580Q/S Q-band) Group A (EMX-micro X-band) Group B (EasySpin)	Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Simulation of isotropic spectra	Laboratory Laboratory Laboratory Laboratory Laboratory
12:15 – 13:00	<i>Lunch</i>		
13:00 – 14:00	Lab IV Group D (E500 S-band) Group E (EMX X-band) Group A (E580Q/S Q-band) Group B (EMX-micro X-band) Group C (EasySpin)	Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Simulation of isotropic spectra	Laboratory Laboratory Laboratory Laboratory Laboratory
14:00 – 15:00	Lab V Group E (E500 S-band) Group A (EMX X-band) Group B (E580Q/S Q-band) Group C (EMX-micro X-band) Group D (EasySpin)	Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Measurements of isotropic spectra Simulation of isotropic spectra	Laboratory Laboratory Laboratory Laboratory Laboratory
15:00 – 15:45	<i>Tea/Coffee</i>	and Round up of labs	Chemistry G.08

15:45 – 16:45	Lecture IV DC	What happens when we immobilise a sample?	Chemistry G.08
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Wednesday	DC/EJLM/AdB/FT/MS/SL/SC/LL/GDR	Title	Location
09:00 – 10:00	Lecture V DC/EJLM	Information about electronic structure	Chemistry G.08
10:00 – 11:00	Lab VI Group C (E500 S-band) 110 K Group E (EMX X-band) 110 K Group A (E580Q/S Q-band) 110 K Group D (EMX-micro X-band) RT Group B (EasySpin)	Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra Single crystal experiment [CaCd{1%Cu}(OAc) ₄] Simulation of powder/frozen solution spectra	Laboratory Laboratory Laboratory Laboratory Laboratory
11:00 – 11:15	<i>Tea/Coffee</i>		
11:15 – 12:15	Lab VII Group E (E500 S-band) 110 K Group A (EMX X-band) 110 K Group D (E580Q/S Q-band) 110 K Group B (EMX-micro X-band) RT Group C (EasySpin)	Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra Single crystal experiment [CaCd{1%Cu}(OAc) ₄] Simulation of powder/frozen solution spectra	Laboratory Laboratory Laboratory Laboratory Laboratory

12:15 – 13:00	<i>Lunch</i>		
13:00 – 14:00	Lab VIII Group A (E500 S-band) 110 K Group D (EMX X-band) 110 K Group B (E580Q/S Q-band) 110 K Group C (EMX-micro X-band) RT Group E (EasySpin)	Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra Single crystal experiment [CaCd{1%Cu}(OAc) ₄] Simulation of powder/frozen solution spectra	Laboratory Laboratory Laboratory Laboratory Laboratory
14:00 – 15:00	Lab IX Group D (E500 S-band) 110 K Group B (EMX X-band) 110 K Group C (E580Q/S Q-band) 110 K Group E (EMX-micro X-band) RT Group A (EasySpin)	Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra Single crystal experiment [CaCd{1%Cu}(OAc) ₄] Simulation of powder/frozen solution spectra	Laboratory Laboratory Laboratory Laboratory Laboratory
15:00 – 16:00	Lab X Group B (E500 S-band) 110 K Group C (EMX X-band) 110 K Group E (E580Q/S Q-band) 110 K Group A (EMX-micro X-band) RT Group D (EasySpin)	Measurements of powder/frozen solution spectra Measurements of powder/frozen solution spectra	Laboratory Laboratory Laboratory Laboratory Laboratory

		Measurements of powder/frozen solution spectra Single crystal experiment [CaCd{1%Cu}(OAc) ₄] Simulation of powder/frozen solution spectra	
16:00 – 16:45	<i>Tea/Coffee</i>	and Round up of labs	Chemistry G.08
16:45 – 17:25	Lecture VI DC/EJLM	More than one unpaired electron, $S > \frac{1}{2}$ (1)	Chemistry G.08

Thursday	DC/EJLM/AdB/FT/MS/SL/SC/LL/GDR	Title	Location
09:00 – 09:45	Lecture VII DC/EJLM	More than one unpaired electron, $S > \frac{1}{2}$ (2)	Chemistry G.08
09:45 – 10:00	Lecture VIII DC/EJLM	The anomalous paramagnetism of copper acetate	Chemistry G.08
10:00 – 11:00	Lab XI Group E (E500 S-band) Group D (EMX X-band) Group C (E580Q/S Q-band) Group B (EMX-micro X-band, VT) Group A (EasySpin)	Measurements of $S > \frac{1}{2}$ systems Measurements of $S > \frac{1}{2}$ systems Measurements of $S > \frac{1}{2}$ systems Measurements of copper acetate Simulation of $S > \frac{1}{2}$ systems	Laboratory Laboratory Laboratory Laboratory Laboratory
11:00 – 11:15	<i>Tea/Coffee</i>		
11:15 – 12:00	Lab XII Group D (E500 S-band) Group C (EMX X-band)	Measurements of $S > \frac{1}{2}$ systems	Laboratory Laboratory

	Group B (E580Q/S Q-band) Group A (EMX-micro X-band, VT) Group E (EasySpin)	Measurements of $S > 1/2$ systems Measurements of $S > 1/2$ systems Measurements of copper acetate Simulation of $S > 1/2$ systems	Laboratory Laboratory Laboratory
12:00 – 12:45	<i>Lunch</i>		
12:45 – 13:45	Lab XIII Group C (E500 S-band) Group B (EMX X-band) Group A (E580Q/S Q-band) Group E (EMX-micro X-band, VT) Group D (EasySpin)	Measurements of $S > 1/2$ systems Measurements of $S > 1/2$ systems Measurements of $S > 1/2$ systems Measurements of copper acetate Simulation of $S > 1/2$ systems	Laboratory Laboratory Laboratory Laboratory
13:45 – 14:45	Lab XIV Group B (E500 S-band) Group A (EMX X-band) Group E (E580Q/S Q-band) Group D (EMX-micro X-band, VT) Group C (EasySpin)	Measurements of $S > 1/2$ systems Measurements of $S > 1/2$ systems Measurements of $S > 1/2$ systems Measurements of copper acetate Simulation of $S > 1/2$ systems	Laboratory Laboratory Laboratory Laboratory
14:45 – 15:00	<i>Tea/Coffee</i>		
15:00 – 16:00	Lab XV Group A (E500 S-band) Group E (EMX X-band) Group D (E580Q/S Q-band)	Measurements of $S > 1/2$ systems Measurements of $S > 1/2$ systems	Laboratory Laboratory Laboratory

	Group C (EMX-micro X-band, VT) Group B (EasySpin)	Measurements of $S > 1/2$ systems Measurements of copper acetate Simulation of $S > 1/2$ systems	Laboratory Laboratory
16:00 – 16:30	<i>Tea/Coffee</i>	and Round up of labs	Chemistry G.08
	Free time		
18:00 -	<i>Workshop dinner</i>		

Friday	DC/EJLM/AdB/FT/MS	Title	Location
09:00 – 09:50	Lecture IX DC/EJLM	Introduction to pulse techniques – the spin echo	Chemistry G.08
09:50 – 10:00	<i>Tea/Coffee</i>		
10:00 – 10:50	Lecture X DC/EJLM	Introduction to applications of pulsed EPR	Chemistry G.08
11:00 – 12:10	Lab XVI (Demonstrations)		Laboratory
	Groups A, B, C, D, E	Demonstration of the E580X pulsed spectrometer	
12:10 – 12:40	Conclusions, discussions and questionnaire		
12:45 –	<i>Lunch and departure</i>		