



# Summer School: Charge and Spin Transport in Non-Metallic Systems and Confined Geometries

August 24-29, 2014 in Mainz

Time	Sunday 24th	Monday 25 <sup>th</sup> August	Tuesday 26th August	Wednesday 27th August	Thursday 28th August	Friday 29th August
9-9h45		Introduction to the theory of charge transport I D. Andrienko (Mainz)	Introduction to single molecule measurements using scanning tunneling microscopy I J. Repp (Regensburg)	Single Molecule Magnets investigated with Scanning Tunneling Microscopy I T. Komeda (Sendai)	Transport in Silicon Nanowires T. Mikolajick (Dresden)	Spin Transport and Spin – Orbit effects J. Sinova (Mainz)
9h45-10h30		Microscopic charge-transport simulation for OLEDs F. May (BASF Ludwigshafen)	Introduction to single molecule measurements using scanning tunneling microscopy II J. Repp (Regensburg)	Single Molecule Magnets investigated with Scanning Tunneling Microscopy II T. Komeda (Sendai)	Transport across single molecules Herre van der Zant (Delft)	Spin Transport across organic molecules on surfaces M. Cinchetti (Kaiserslautern)
10h30-11h		Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11-11h45		Introduction to charge transport in organic systems I P. Blom (Mainz)	Organic device concepts K. Asadi (Mainz)	Converting solar energy with organic materials R. Janssen (Eindhoven)	How to publish in PRL - Introduction to Scientific Publishing Daniel Ucko (Physical Review Letters)	Ultrafast transport probed by THz radiation D. Turchinovich (Mainz)
11h45-12h30		Introduction to charge transport in organic systems II P. Blom (Mainz)	Introduction to transport in confined geometries and across point contacts I A. Erbe (Dresden)	Excursion to Oppenheim	Interaction between magnetization and spin currents M. Kläui (Mainz)	Theory of charge transport – Advanced Topics D. Andrienko (Mainz)
12h30-14h		Lunch break	Lunch break		Lunch break	Lunch break
14-14h45		Introduction to Magnetoresistance Effects I G. Güntherodt (Aachen)	Introduction to transport in confined geometries and across point contacts II A. Erbe (Dresden)		Single spin dynamics and spin Transport in carbon-based systems A. Candini (Modena)	
14h45-15h30		Introduction to Magnetoresistance Effects II G. Güntherodt (Aachen)	Introduction to electronic transport calculations I S. Gemming (Dresden)	Spin and Charge Transport in Graphene Bart van Wees (Groningen)		
15h30-16h		Coffee break	Coffee break	Coffee break		
16-16h45		Introduction to transport in organic spin valves G. Schmidt (Halle)	Introduction to electronic transport calculations II S. Gemming (Dresden)	Introduction to organic material synthesis and structure U. Scherf (Wuppertal)		
16h45-17h30	Welcome Reception (from 6 p.m.)	Magnetoresistance effects in organic materials B. Koopmans (Eindhoven)	SpinNet Postersession MAINZ seminar room Staudinger Weg 9, 3rd floor, room 122	Introduction to organic material synthesis and structure U. Scherf (Wuppertal)		