

SPIN TRANSPORT AND SPIN PUMPING IN ORGANICS

PROGRAM

SP/CE

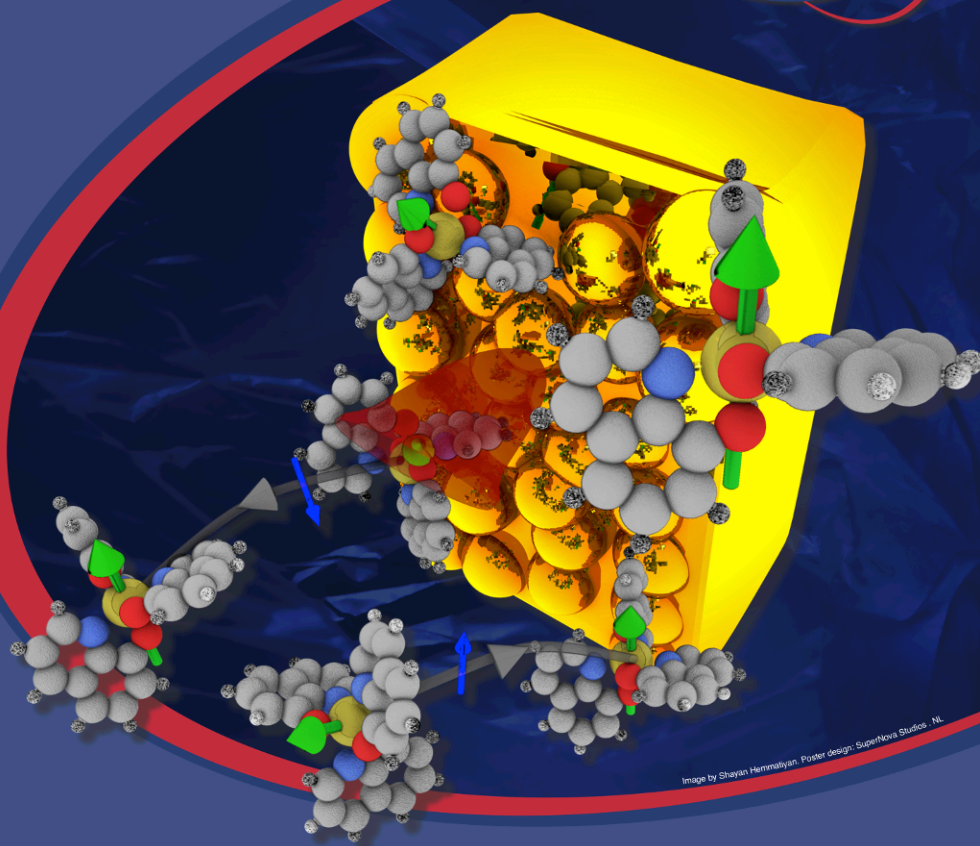


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CONFIRMED SPEAKERS AND PARTICIPANTS

Oscar Cespedes
Riccardo Di Pietro
Shayan Hemmatyan
Dazhi Hou
Cameron Jellett
Keehoon Kang

Bert Koopmans
Kurt Kremer
Yuan Li
Aurelien Manchon
Iain McCulloch
Erik McNellis

Amaury Melo Souza
Jenny Nelson
Christian Nielsen
Yoann Olivier
Carl Poelking
Georg Schmidt

Sam Schott
Jairo Sinova
Henning Sirringhaus
D. Venkateshvaran
Angela Wittmann
Joerg Wunderlich

The Spin Phenomena Interdisciplinary Center aims to bring together scientists from diverse disciplines and of varying seniority in the broad area of spin related research. Its goal is to break down scientific barriers and foster emergent areas of research that combine the strengths of different fields.

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Spin Transport and Spin Pumping in Organics 14-15 September 2015



Location: Sparkassenakademie Schloß Waldthausen,
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Program

Monday 14 September

- 09:15-09:30** *Registration*
- 09:30-09:50** *Workshop Introduction, Jairo Sinova, University of Mainz*
- 09:50-10:30** **Kurt Kremer**, Max Planck Institute, Mainz - *Perspectives of multiscale modeling of macromolecular semiconductors*
- 10:30-10:50** **Henning Sirringhaus**, University of Cambridge - *Introduction to ERC Synergy Project*
- 10:50-11:10** **Riccardo Di Pietro, Deepak Venkateshvaran**, University of Cambridge - *Roundtable presentation of ERC Synergy Project*
- 11:10-11:30** *Discussion and Coffee Break*
- 11:30-12:00** **Jenny Nelson**, Imperial College London - *Multi-scale modelling of charge transport in molecular electronic materials*
- 12:00-12:30** **Angela Wittmann, Keehoon Kang**, University of Cambridge
Amaury Melo Souza, University of Mainz - *Roundtable presentation of ERC Synergy Project (cont'd)*
- 12:30-14:00** *Lunch Break*
- 14:00-14:30** **Yoann Olivier**, Université de Mons - *Charge transport in π -conjugated polymers: a combined classical-quantum approach to establish structure- property relationships*
- 14:30-15:00** **Carl Poelking**, Max Planck Institute, Mainz - *Microscopic simulations of charge transport in organic semiconductors*
- 15:00-15:30** **Shayan Hematiyan**, University of Mainz - *Multiscale modeling of spin dependent transport in organic semiconductors: VOTCA-STP*
- 15:30-15:50** **Erik R. McNellis**, University of Mainz - *Spintronics properties of organic semiconductors from first-principles theory*

15:50-16:10 **Sam Schott**, *University of Cambridge* - *Spintronics properties of organic semiconductors from electron spin resonance measurements*

16:10-16:30 *Discussion and Coffee Break*

16:30-17:00 **Bert Koopmans**, *Eindhoven University of Technology* - *From fs spin pumping to unexpected magnetic field effects in organics*

17:00-17:30 **Dazhi Hou**, *Tohoku University* - *Temperature gradient induced magnetization in a normal metal*

18:00-21:00 *Dinner at Schloss Waldthausen*

Tuesday 15 September

09:30-10:00 **Oscar Cespedes**, *University of Leeds* - *Spin physics in C60'*

10:00-10:40 **Joerg Wunderlich**, *University of Cambridge* - *Helicity dependent ballistic domain wall motion driven by ultra-short laser pulses*

10:40-11:00 *Discussion and Coffee Break*

11:00-12:00 **Iain McCulloch, Christian Nielsen, Cameron Jellett**, *Imperial College London* - *Roundtable presentation of synthetic chemistry within ERC Synergy Project*

12:00-12:30 **Aurelien Manchon, King Abdullah University of Science and Technology (KAUST)** - *Spin-orbit coupled transport in metals spin Hall, spin swapping and spin galvanic effects*

12:30-14:00 *Lunch Break*

Workshop at the Schloss Waldthausen ends, transfer to the University of Mainz for those interested

15:00-18:00 **INSPIRE Group Visit @ JGU (University of Mainz)**, *presentation of spintronics projects – participants invited*

19:00-21:00 *Dinner at the restaurant Kupferberg Terrassen*