

SPP1601-Kickoff-meeting 20.9.2012 - 22.9.2012

Auditorium Maximum, HS 1

Martin-Luther-University Universitätsplatz 1, 06108 Halle

Thursday, September 20th, 2012

15:30-15:55 Arrival and get together with coffee and cake, Foyer

15:55 - 16:00 Opening

16:00 -17:10

Heinz-Jürgen Steinhoff, Osnabrück

Site-directed spin labeling EPR spectroscopy in vivo

Malte Drescher, Konstanz

Human telomeric quadruplexes studied by in-cell EPR

Ivan Krstic, Frankfurt

Optimization of spin labels for in-cell PELDOR spectroscopy

17:10 - 17:30 Break, Foyer

17:30 -18:00

Invited guest: Graham Smith, St. Andrews

Towards 100nM sensitivity in orientational selective PELDOR

18:00 - 19:10

Gunnar Jeschke, Zürich

Some considerations on ultra-wideband electron paramagnetic resonance spectroscopy

Philipp Spindler, Frankfurt

Broadband Inversion PELDOR

Roberto Rizzato, Göttingen

Investigating cross polarization for sensitivity enhancement in ENDOR

19:45 Dinner at the Dorinhotel

Friday, September 21st, 2012

Breakfast at the Dorinhotel

9:00 - 9:30

Invited guest: Aharon Blank, Haifa

Multifrequency sensitive miniature surface resonators for ESR - properties and applications

09:30 - 10:40

Dieter Suter, Dortmund

EPR with microresonators

Edward Reijerse, Mülheim EPR probeheads for very small samples: developments and prospects

B. Naydenov, Ulm

Single electron and nuclear spin detection

10:40 - 11:10

Coffee break at Mensa Tulpe

11:10 - 11:40

Invited guest: Sabine van Doorslaer, Antwerpen

Pulsed EPR and ENDOR analysis of Ti(III) centers in a variety of materials

11:40 - 12:25

Emre Erdem, Freiburg

EPR investigations of intrinsic defect centers in ZnO nanocrystals

Andreas Pöppel, Leibzig

EPR spectroscopy of ZnO and porous HKUST-1 thin films

12:25-14:00

Lunch at Mensa Tulpe

14:00 - 14:30

Invited guest: Christoph Böhme, Salt Lake City

Foundations and applications of pulsed electrically detected magnetic resonance spectroscopy

14:30 - 15:40

Klaus Lips, Berlin

Interface defects at Silicon heterojunction solar cells studied by electrically detected magnetic resonance

Martin Brandt, München

Investigation of recombination kinetics via pulsed EDMR

Andreas Baumann/ Vladimir Dyankonov, Würzburg

Electrically detected electron paramagnetic resonance by pulsed charge carrier extraction for application in thin film solar cells

15:30 -16:10 Coffee break, Foyer

16:10 - 18:00

Uwe Gerstmann, Paderborn

Ab initio calculations of EPR parameters for extended surfaces and interfaces - how can this be done?

Thomas Risse, Berlin

Investigating paramagnetic defects on silicon surfaces and interfaces under ultrahigh vacuum conditions

Wolfgang Harneit, Mainz

Electrically detected magnetic resonance on C60 nanowires

Alexander Schnegg, Berlin

Sensitivity improvement in FDFT THz EPR for high spin systems

Joris van Slageren, Stuttgart

Improving sensitivity in unconventional THz EPR

18:00 - 19:00 General assembly

19:30 Dinner at the Dorinhotel

Saturday, September 22nd, 2012

Breakfast at the Dorinhotel

8:30 - 9:00

Invited guest: Christiane Timmel, Oxford

From bucket to nano" - a step change in detecting spin-correlated radical pairs in magnetic fields using high-sensitivity optical spectroscopy

9:00 - 10:00

Jan Behrends, Berlin

Photoinduced charge transfer states in polymer: Fullerene blends probed by transient EPR

Erik Schleicher, Freiburg

Light-induced magnetization detected by magnetic force microscopy: from basic concept to first applications

Peter Höfer, Fa. Bruker, Karlsruhe

Latest developments at Bruker EPR

10:00 -10:30 Coffee break in the foyer

10:30 - 11:40

Simone Kossmann, Mülheim

Development of ab initio methods for the accurate prediction of hyperfine and quadrupole interaction parameters in large molecules

Adelheid Godt, Bielefeld

Spin labeled compounds for the development of EPR based distance measurement techniques

Olav Schiemann, Bonn

Tritylradicals for nanometer distance measurements

11:40 - 12:10

Invited guest: Gary Gerfen, New York

High frequency EPR of membrane proteins: from RFQ to single crystals

Lunch & departure