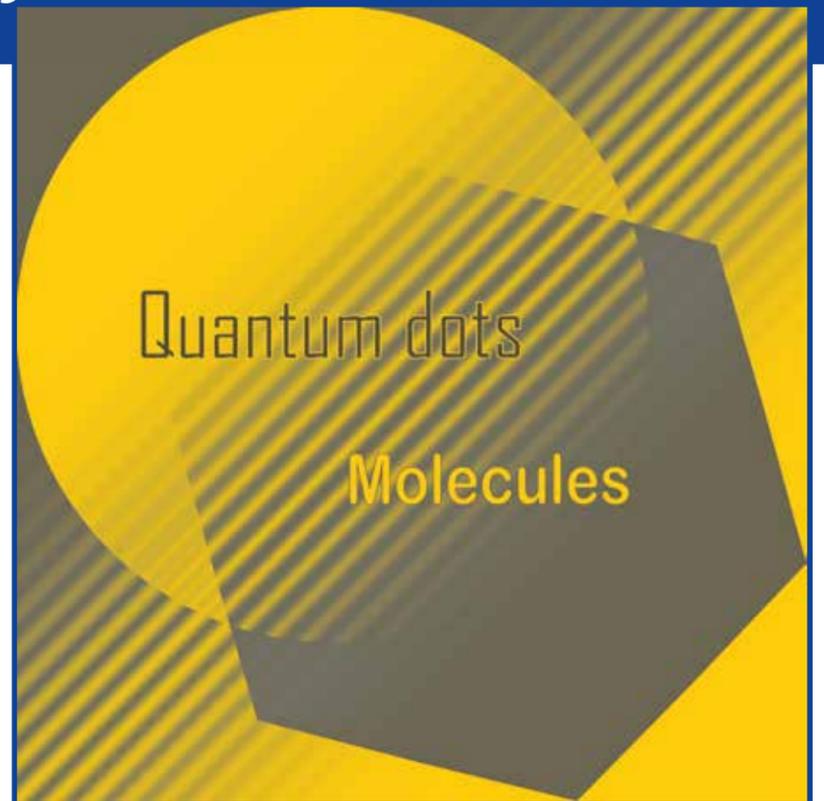




Many paths to interference: a journey between quantum dots and single molecule junctions

International Focus Workshop 18 - 20 April 2017

Focus of the workshop is quantum interference detected in the transport characteristics of single molecules and molecular quantum dots. These devices represent interesting play-grounds to investigate the relation between interference and interaction in open quantum systems. It is our aim to promote a common understanding of the origin and mechanisms of path interference in its different contexts.



Topics

- Molecular electronics
- Interference and molecular structure
- Quantum transport in cross-conjugated molecules
- Interference and molecular vibrations
- Many-body vs. single-particle interference
- Leggett-Garg inequalities
- Coherence and dephasing in interacting open systems
- Interference effects in the Kondo problem
- Thermoelectrics and interference
- Signatures of interference in the shot noise
- Dark-states in quantum transport
- Frustration and topology in quantum dot molecules
- Long range transport in quantum dot arrays

Invited speakers:

Gianaurelio Cuniberti (DE)
Clive Emary (GB)
Klaus Ensslin (CH)
Takafumi Fujita (NL)
Milena Grifoni (DE)
Shmuel Gurvitz (IL)
Pavel Hawrylak (CA)
Per Hedegård (DK)
Philippe Lafarge (FR)
Colin J. Lambert (GB)
Gloria Platero (ES)
Andrew Sachrajda (CA)
Stefano Sanvito (IE)
Gemma Solomon (DK)
Robert Stadler (AT)
Michael Thoss (DE)
Juan Diego Urbina (DE)

Herre van der Zant (NL)
Héctor Vázquez (CZ)
Latha Venkataraman (US)

Scientific coordinators:

Andrea Donarini
Regensburg, DE

Linda A. Zotti
Madrid, ES

Organisation:

Maria de Haas
MPIPKS Dresden

Applications received before 18 January 2017 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international seminar and workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

For further information please contact:

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