



Quantum Effects in Biological Systems 2016

6-9 June 2016

List of Posters

1. **Betony Adams**, Ilya Sinayskiy and Francesco Petruccione. An Open Quantum Systems Approach to Avian Magnetoreception
2. **André Anda**, Luca de Vico, Thorsten Hansen and Darius Abramavičius. Beyond Harmonic Oscillators: Theoretical Modelling
3. **Joshua Botha**, Herman Stoltz, Tjaart Krüger, Michael Gruber and Rienk van Grondelle. Exciton dynamics of individual plant light-harvesting complexes as revealed by fluorescence lifetime, intensity and spectral shifts.
4. **Eyal Cohen** and Yossi Paltiel. Controlling energy and charge transfer in hybrid organic/inorganic nanostructures
5. **Ido Eisenberg**, Shira Yochelis, Dvir Harris, Noam Adir, Nir Keren and Yossi Paltiel. Energy transfer in a succession of Phycocyanin and Allophycocyanin assembly phases
6. **Huzifa Elnour**, Alexander Paradzah, Asmita Singh, Charusheela Ramanan, Lars Dietzel, Nicoletta Liguori, Claudia Büchel, Roberta Croce, Rienk van Grondelle and Tjaart Krüger. Ultrafast pump-probe spectroscopic investigations of the energy transfer dynamics in the main light-harvesting complex of plants and diatoms
7. **Alexander Fokas**, Daniel Cole and Alex Chin. Constrained Dynamics in the FMO complex: The impact of large amplitude motions
8. **Michal Gwizdala**, Diana Kirilovsky, Rienk van Grondelle and Tjaart P.J. Kruger. Controlling light harvesting with light
9. **Hazmatally Goolam Hossen**, Ilya Sinayskiy and Francesco Petruccione. Non-Reversal Open Quantum Walks
10. **Peter Husen**, Adrian Bøgh Salo and Ilia A. Solov'yov. Identification of charge transfer processes leading to superoxide production in the bc1 complex
11. **Cristina Leonardo**, Elena Meneghin and Elisabetta Collini. 2D-Photon Echo on chlorophyll a: relaxation dynamics of the Q_y band.
12. **Pavel Maly**, Oscar J. G. Somsen, Vladimir I. Novoderezhkin, Tomas Mancal and Rienk van Grondelle. The Role of Resonant Vibrations in Electronic Energy Transfer
13. **Adriana Marais**. What is life? How molecular astrobiology is bringing us closer to an answer
14. **Nicole M. De March**, Leonardo Brunnet and Sandra D. Prado. Coulomb Effects in Quantum Ion Channels Transport
15. **Valentina Notararigo**, David Holdaway and Alexandra Olaya-Castro. Photon counting statistics of a prototype photosynthetic complex

16. **Johan Antowan Nöthling**, Tjaart Krüger and Tomas Mančal. Exciton dynamics in photosynthetic molecular aggregates
17. **Sue Ann Oh**, Mi Kyung Lee, Pengfei Huo, Justin A. Provazza, David F. Coker and David A. W. Hutchinson. Do underlying symmetries play a role in the enhancement of exciton transport in some photosynthetic systems?
18. **Sima Pouyandeh**, Stefano Iubini, Yasser Omar and Francesco Piazza. Quantum Transport in Light harvesting complexes: the role of fluctuations in the exciton couplings.
19. **Sayeh Rajabi**, Vladislav Sláma and Tomáš Mančal. Generalized Frenkel exciton model for bio-mimetic light harvesting in disordered Fluorographene
20. **Andrew Ringsmuth**. Multiscale-maximal photosynthesis
21. **Felix Schyboll**, Uwe Jaekel and Heiko Neeb. Pool- and orientation-dependent transverse relaxation in myelinated axons
22. **Emil Sjulstok**, Jógvan Magnus Haugaard Olsen and Ilia A. Solov'yov. Quantifying electron transfer reactions in biological systems: what interactions play the major role?
23. **Joachim Seibt** and Tomáš Mančal. Ultrafast Energy Transfer with Competing Channels: Non-equilibrium Förster and Modified Redfield Theories
24. **Vladislav Slama**, Vaclav Perlik, Frantisek Sanda, Jürgen Hauer and Tomas Mančal. Theoretical investigation of exciton transfer in perylene dimer with orthogonally arranged transition dipoles
25. **Hugo Tercas**, Sima Pouyandeh and Yasser Omar. Polaritonic origin of coherence in vibration-assisted exciton quantum transport
26. **Andrea Volpato**, Mirco Zerbetto and Elisabetta Collini. 2D electronic spectroscopy characterisation of the ultrafast response of an artificial multichromophoric system