School on Quantum Effects in Biological Systems 2016 2-3 June 2016

Program

Thursday, 2nd June

$8^{45} - 9^{00}$ School Opening

Session Chair: Francesco Petruccione

$9^{00} - 10^{30}$ Tjaart Kruger (University of Pretoria, SA). Introduction to photosynthetic light harvesting: structure, function, techniques and control

$10^{30} - 11^{00}$ Coffee/Tea

$11^{00} - 12^{30}$ Elisabet Romero (VU University, Netherlands). Energy Transfer & Excitons

$12^{30} - 14^{00}$ Lunch

Session Chair: Elisabet Romero

$14^{00} - 15^{30}$ Ilya Sinayskiy (UKZN and NIThePh, SA). Introduction to the Theory of Open Quantum Systems

$15^{30} - 16^{00}$ Coffee/Tea

$16^{00} - 17^{30}$ Yoshitaka Tanimura (Kyoto University, Japan). Reduced Hierarchy Equations of Motion Approach to a Quantum Dissipative System

Friday, 3rd June

Session Chair: Tjaart Kruger

$9^{00} - 10^{30}$ Richard Cogdell (University of Glasgow, UK). Structure and function of light-harvesting complexes

$10^{30} - 11^{00}$ Coffee/Tea

$11^{00} - 12^{30}$ Elisabet Romero (VU University, Netherlands). Electron Transfer: Marcus Theory & Coherent Mechanism

$12^{30} - 14^{00}$ Lunch

Session Chair: Ilya Sinayskiy

$14^{00} - 15^{30}$ Richard Cogdell (University of Glasgow, UK). Introduction to methods of studying of the structure and function of light-harvesting complexes

$15^{30} - 16^{00}$ Coffee/Tea

$16^{00} - 17^{30}$ Adriana Marais (UKZN, SA). Molecular Astrobiology: An open quantum systems approach to the formation of prebiotic molecules