

Research Workshop on Quantum Biology
NITheP-KZN and School of Physics, UKZN
H-Block, Seminar Room (3rd Floor)
7-11 November 2011

Program

Monday, 7 November

- 9¹⁵ – 9⁴⁵ Registration and Tea/Coffee
9⁴⁵ – 10⁰⁰ Opening
10⁰⁰ – 11³⁰ A. Buchleitner (University of Freiburg), Modeling Photosynthetic Exciton Transport on Random Graphs.
11³⁰ – 12⁰⁰ Discussion
12³⁰ – 14⁰⁰ Lunch
14⁰⁰ – 15³⁰ J. Prior (Universidad Politécnica de Cartagena, Spain and University of Ulm, Germany), Quantum Networks and Environments: Principles and Simulations in Biology.
15³⁰ – 16⁰⁰ Tea/Coffee
16⁰⁰ – 17⁰⁰ R. Sparrow (CSIR), Synthetic Biology - Engineering with Biology.
17⁰⁰ – 20⁰⁰ Braai (Welcome reception)

Tuesday, 8 November 2011

- 9³⁰ – 10⁰⁰ Tea/Coffee
10⁰⁰ – 11³⁰ A. Ekert (University of Oxford and National University of Singapore), title to be confirmed.
11³⁰ – 12⁰⁰ Discussion
12⁰⁰ – 12¹⁵ Workshop Photo
12³⁰ – 14⁰⁰ Lunch
14⁰⁰ – 15³⁰ V. Vedral (University of Oxford and National University of Singapore), Electron Transport in the Respiratory Complex I.
15³⁰ – 16⁰⁰ Tea/Coffee
16⁰⁰ – 17⁰⁰ Discussion

Wednesday, 9 November 2011

- 9³⁰ – 10⁰⁰ Tea/Coffee
10⁰⁰ – 11³⁰ S. Lloyd (MIT), The Quantum Goldilocks Effect: Optimality, Robustness, and the Convergence of Timescales in Quantum Transport.
11³⁰ – 12⁰⁰ Discussion
12³⁰ – 14⁰⁰ Lunch
14⁰⁰ – 19⁰⁰ Conference excursion and dinner at Tala Game Reserve. The shuttle bus to Tala Game Reserve will depart from the School of Physics, UKZN.

Thursday, 10 November 2011

- 9³⁰ – 10⁰⁰ Tea/Coffee
10⁰⁰ – 11³⁰ G. G. Guerreschi (University of Innsbruck), Quantum and Classical Interplay in Biological Systems.
11³⁰ – 12⁰⁰ Discussion
12³⁰ – 14⁰⁰ Lunch
14⁰⁰ – 15³⁰ I. Sinayskiy (NITheP and UKZN), Open Quantum Random Walks.
15³⁰ – 16⁰⁰ Tea/Coffee
16⁰⁰ – 17⁰⁰ A. Marais (NITheP and UKZN), A Simple Model of Decoherence Assisted Transport.
17⁰⁰ – 17¹⁵ Closing remarks

Friday, 11 November 2011, "Discussion day"

- 9³⁰ – 10⁰⁰ Tea/Coffee
10⁰⁰ – 12⁰⁰ Discussion
12³⁰ – 14⁰⁰ Lunch
14⁰⁰ – 15³⁰ Discussion
15³⁰ – 16⁰⁰ Tea/Coffee
16⁰⁰ – 17⁰⁰ Discussion

Please note that there will be a shuttle bus between UKZN and the Benjamin Hotel, as well as between UKZN and Roseland House.