Non-perturbative aspects in Field Theory

King's College London, Department of Physics
21 November 2012

Morning session - room K1.28

10.30 **Arttu Rajantie** (Imperial College London)
"Topological Solitons"

11.00 **Daniele Teresi** (University of Manchester)
"Improved CJT Effective Action"

11.30 **Peter Millington** (University of Sheffield)
"Thermal Field Theory to All Orders in Gradient Expansion"

12.00 **Nicholas Houston** (King's College London)
"Dynamical supergravity breaking"

12.30 Lunch break

Afternoon session - Anatomy Theatre

13.30 **Tim Morris** (University of Southampton)
"Asymptotic safety in the f(R) approximation I"

14.00 **Juergen Dietz** (University of Southampton)
"Asymptotic safety in the f(R) approximation II"

14.30 **Nikolaos Mavromatos** (King's College London)
"Anomalous Majorana Neutrino Mass terms from (Quantum) Gravity with Torsion"

15.00 **Gert Aarts** (Swansea University)
"Complex Langevin dynamics and the sign problem at finite density"

15.30 Coffee break

16.00 **Daniel Litim** (University of Sussex)
"Asymptotic safety for gravity with matter"

16.30 **Kevin Falls** (University of Sussex)
"Fixed points of 4d metric quantum gravity"

17.00 **Dario Benedetti** (Max Plank Institute)
"Asymptotically safe Quantum Gravity"