



University of Crete
Department of Physics

Physics Colloquium

Thursday, 21 May 2020 | 17:00 – 18:00, online with BigBlueButton

Transport, strong coupling and black holes

Prof. Aristomenis Donos

Department of Mathematical Sciences, Durham University, UK

ABSTRACT

One of the most fascinating aspects of many body systems is the collective behaviour of their degrees of freedom under external sources. The question is not only of fundamental importance but also of practical and technological importance in condensed matter systems. Models of weakly coupled particles have been extremely successful in understanding universal properties of transport. In my talk I will explain how black holes can help us understand transport properties of strongly coupled systems and probe regimes which are intrinsically non-perturbative.