



**ΚΟΙΝΟ ΣΕΜΙΝΑΡΙΟ ΚΕΝΤΡΟΥ ΚΒΑΝΤΙΚΗΣ ΠΟΛΥΠΛΟΚΟΤΗΤΑΣ ΚΑΙ  
ΝΑΝΟΤΕΧΝΟΛΟΓΙΑΣ & ΚΕΝΤΡΟΥ ΘΕΩΡΗΤΙΚΗΣ ΦΥΣΙΚΗΣ ΚΡΗΤΗΣ /  
JOINT CCQCN -CCTP SEMINAR**

**Thursday, 11 December 2014**

**14:00-15:00**

**2nd Floor Seminar Room**

**Fluid Dynamics from Lattice QCD**

Dr. Simon Mages

University of Regensburg

**Abstract**

In the strongly interacting medium produced in heavy ion collisions non-perturbative effects of QCD play an important role. Lattice QCD is a well established framework to answer questions about non-perturbative properties of QCD. In this talk I will give an introduction on the principles and methods that constitute Lattice QCD and report about our latest efforts on reconstructing transport properties of the medium like the shear viscosity. I will also introduce the concept of the so called "Wilson Flow" as a recently developed tool for accessing the infrared properties of a gauge theory.

