

数学与系统科学研究院

计算数学所学术报告

报告人: **Ian Turner**

(*Queensland University of Technology*)

报告题目:

**Multiscale modelling approaches for
simulating transport processes in
heterogeneous porous media**

邀请人: 洪佳林 研究员

报告时间: 2018 年 12 月 12 日(周三)

下午 16:00-17:00

报告地点: 数学院南楼七层

702 教室

Abstract:

Multiscale approaches for simulating transport in porous media generally involve either upscaling techniques such as computational homogenisation, where calculations on a representative ‘microcell’ are used to derive effective coefficients for use in the macroscopic averaged equations; or distributed microstructure models, which consist of coupled continuum equations that are solved simultaneously at the macro and microscales (microcell). In this talk I will survey the computational techniques employed for the nonlinear conservation laws, together with the methods used for simulating the transport phenomena evident at the microscale.

欢迎大家参加！