



Mathematics and CS Seminar

Supremum estimates for stochastic porous-media equations

Konstantinos Dareiotis (Max Planck Institute, Leipzig)

Host: JaMa

We will discuss a priori estimates for the uniform norm of solutions of a class of viscous quasilinear stochastic partial differential equations. The estimates are obtained independently of the viscosity parameter. Hence, we can pass to the limit and deduce similar estimates for solutions of degenerate equations. In particular, we show that for any initial condition in H^{-1} , the solution $u(t)$ of the corresponding stochastic porous medium equation is a bounded function, for any positive time $t > 0$.

This is a joint work with Benjamin Gess.

Thursday, February 22, 2018 04:00pm - 06:00pm

IST Austria Campus Big Seminar room Ground floor / Office Bldg West (I21.EG.101)



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: http://ist.ac.at/fileadmin/user_upload/pdfs/IST_shuttle_bus.pdf The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.