Speaker: **Martin Hairer, The University of Warwick**

Title: Taming diverging stochastic PDEs

Abstract:

Several very natural classes of nonlinear stochastic partial differential equations are ill-posed when considered in a “ naïve” way. Very recently, a general theory was developed, allowing to tame these divergencies by compensating them with suitable counterterms, in a way reminiscent of the renormalisation procedures known from quantum field theory. I will give an overview of some of the main results obtained so far, as well as a glimpse into the techniques of proof.