

Math 295 Department of Mathematics Colloquium
Distinguished Speaker

**Professor Martin Hairer, Fields Medalist
University of Warwick**



Date: October 29, 2015
Time: 4:00 – 5:00
Location: AP&M 6402

Taming Infinities

Some physical and mathematical theories have the unfortunate feature that if one takes them at face value, many quantities of interest appear to be infinite! Various techniques, usually going under the common name of “renormalization” have been developed over the years to address this, allowing mathematicians and physicists to tame these infinities. We will tip our toes into some of the mathematical aspects of these techniques and we will see how they have recently been used to make precise analytical statements about the solutions of some equations whose meaning was not even clear until now.

Martin Hairer is the Regius Professor of Mathematics at The University of Warwick. Among other honors, he received the 2013 Fermat Prize, the 2014 Froehlich Prize, and the 2014 Fields Medal for his groundbreaking work in stochastic analysis.