



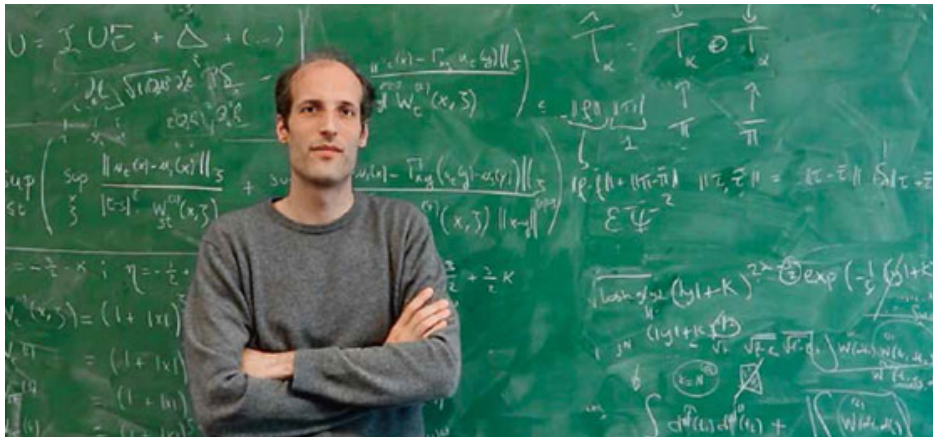
UNIVERSITY OF
LEICESTER

Department of Mathematics

Mathematics Symposium

Thursday, May 11, 2017, 5pm

Ken Edwards Lecture Theatre 2



Sir Martin Hairer KBE (FRS)

Regius Professor of Mathematics, The University of Warwick

Taming Infinities

Abstract: 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.

Professor Hairer was elected Fellow of the Royal Society (FRS) in 2014, and awarded a Regius Professorship by the Queen to mark her Diamond Jubilee. He was also awarded the Fields Medal in 2014 at the International Congress of Mathematicians (ICM) in Seoul, which is the world’s most prestigious mathematics award recognizing outstanding mathematical achievement for existing work and for the promise of future achievement. Hairer is one of the world’s foremost leaders in the field of stochastic analysis and stochastic dynamics with a focus on stochastic partial differential equations.

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