

# Dynamical Systems Seminar

Wednesday, November 13, 2019  
11:00-11:50 am, Hume 321

## Renormalization, rigidity and universality

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*Abstract:* Renormalization is a powerful tool in mathematics, which originated in physics, and has led to a Nobel Prize (Wilson 1982) and several Fields medals (e.g. Avila 2014). It is the main tool to approach problems involving self-similarity, universality, or rigidity, as it classifies systems into classes of systems that share a common property (universality) or are in some sense equivalent (rigidity). I will give an introduction to renormalization ideas and introduce some current topics of research in dynamical systems and mathematical physics, involving renormalization.

The talk will be accessible to graduate students. In particular, I will not assume any prior knowledge of dynamical systems or mathematical physics.