Mathematisches Kolloquium

How to optimally stir your coffee: Challenges in differential equations

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Mixing of different fluids is an ubiquitous phenomenon in sciences, technology, and everyday life. Nevertheless it is fair to say that we are quite far from a clear mathematical understanding of its analytical properties. In this talk I will present my perspective on this problem by describing a suitable mathematical framework for mixing phenomena and by proving a "toy theorem" in a simplified setting. The role of measure theory in the analysis of irregular partial differential equations will be emphasised.