KPT for weak Ramsey categories

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Abstract

The Kechris–Pestov–Todorčević correspondence states that a Fraïssé class of first-order structures has the Ramsey property if and only if the automorphism group of the Fraïssé limit is extremely amenable. We extend this correspondence to weak Fraïssé categories. This is a joint paper with Tristan Bice, Keegan Dasilva Barbosa, and Wiesław Kubiś (https://arxiv.org/abs/2110.01694). In the talk I will review our setup, the main results, and give an example of a weak Ramsey category of strong trees.