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Colorings and subdivisions: a partition principle for higher limits

The focus of this talk will be the recent work *A descriptive approach to higher derived limits*, joint with Nathaniel Bannister, Justin Moore, and Stevo Todorčević. This work's formulation and analysis of a family of multidimensional partition principles PH_n synthesize a number of recent results in the set theoretic study of higher derived limits. We'll survey what's known about these principles, as well as a simplicial perspective on the relevant combinatorics which they suggest.