

Stability in Extremal Set Theory

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I will begin by defining the notion of stability for monotone properties of set systems. This formulation encompasses the classical definition in extremal graph theory initiated by Erdős and Simonovits in the 60's. I will then show stability results for old problems of Erdős, Frankl, Füredi, Katona, Sós, and for some newer problems as well. If time permits, a brief description of the proof techniques will be provided.