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The Sandpile Model and Its Extensions: Dynamical Structures

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The Sandpile Model (SPM) was introduced in 1987 by the physicists Bak, Tang, and Wiesenfeld to study self-organized criticality in dynamical systems. Since then, the model and its extensions have become central topics in contemporary research, particularly in mathematics, computer science, and physics.

This talk presents the SPM and its extensions, focusing on the structure of their state spaces, as well as stability properties and convergence times - fundamental aspects of dynamical systems that provide deeper insight into their behavior.

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