

# 國立清華大學數學系學術演講

## NTHU MATH Colloquium

講題 Self-organized criticality

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時間 2022.11.28 (Mon.) 16:00 – 17:00

地點 第三綜合大樓**2樓 Room 201** (請同學配戴口罩)

茶會 15:30, Room 707

### Abstract

In real life, many physical systems tend to drive themselves towards criticality, without fine tuning parameters. Such a behavior is also known as "self-organized criticality". For this reason, physicists seek for models that exhibit self-organized criticality. In this talk, we will focus on two types of models, one is the abelian sandpile model introduced by Bak, Tang and Wiesenfeld, and the other is variants of the forest fire model introduced by Drossel and Schwabl. We will talk about their relationship with other areas in mathematics together with some of the rigorous results.