

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MATHEMATICS

Simple Person's Applied Math Seminar (SPAMS)

Thursday, February 24, 2022

6:00pm – 6:45pm Room : 2 - 132



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“Nim and variants”

Abstract

Nim is perhaps the most famous of impartial combinatorial games, with a simple solution initially given by Bouton. Many generalizations of Nim and other impartial combinatorial games have been closely studied since the work of Bouton. We will survey a collection of interesting Nim variants and some associated results, along the way encountering Fibonacci numbers, simple solutions, and surprisingly complicated dynamics.