数論セミナー

日時: 2026 年 11 月 24 日 (火) 16:40〜
場所: D814
講演：永井康史 (信州大学)
講演題目:Uncountably many S-adic tilings with pure point spectra

アブストラクト: Tiling dynamical systems are geometric analogues for subshifts with finite alphabets. It is a fundamental problem to decide their dynamical spectra. For example, the famous Penrose tilings give a dynamical system with pure point dynamical spectra. The central conjecture is the Pisot substitution conjecture, which states that an arithmetic condition for self-similarity for a tiling implies the pure point spectrum for the tiling dynamical system. In this talk, we give a sufficient condition for pure point spectra for a class of tilings and apply that to some examples. Moreover, we construct uncountably many tilings with a fixed alphabet, each of which has a pure point spectrum.

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