

数論セミナー

日時：2023年1月20日（金）16：40～

場所：Hybrid

講演者：永井 康史（信州大学）

講演題目：

Lengths of arithmetic progressions in some sequences defined via substitutions

Non-periodic substitutive sequences form a class of sequences each of which is not the repetition of a pattern but still there are repetitions of patterns. In such a sequence, it is natural to study the existence and non-existence of (monochromatic) arithmetic progressions. In a joint work with Shigeki Akiyama and Jeong-Yup Lee, the author proved that for certain substitutive sequences, there are upper bounds for the lengths of monochromatic arithmetic progressions. In this talk, we discuss how large these upper bounds are.

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