Schrödinger operators with substitutive potentials beyond linear complexity

09.08

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Time: Thursday 25.07., 12:00 - 12:30, Room HS 4

Abstract: Tight-binding Schrödinger operators with potentials generated by primitive substitutions have been studied extensively in the past. Typically, these models exhibit singular continuous spectra of Lebesgue measure zero. We consider classes of substitutional systems that go beyond both minimality and linear complexity and explore some of the novel spectral phenomena that can occur. This is joint work with B. Eichinger.