

Contribution Title:	SCHROEDINGER OPERATORS ASSOCIATED WITH PARRY NUMBERS
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Invited speaker:	
YRS seminar:	YES

We introduce discrete Schroedinger operators with potentials generated by primitive substitutions. Known spectral properties of such operators are recalled. In particular, such operators have an empty absolutely continuous spectrum. Also the point spectrum is expected to be empty. In other words, such operators are expected to have a purely singular continuous spectrum. The main aim of the poster is to describe in details how combinatorial properties of fixed points of substitutions reveal the absence of eigenvalues of the corresponding Schroedinger operators. We are particularly interested in substitutions associated with the so-called Parry numbers. Putting together several methods relying on combinatorial properties of fixed points of Parry substitutions, we deduce for which Parry numbers, the corresponding Schroedinger operator has no eigenvalues, hence has a purely singular continuous spectrum.