

UNIVERSIDADE FEDERAL DE SÃO CARLOS
DEPARTAMENTO DE MATEMÁTICA

ENCONTRO DE FISMAT DO VERÃO

(Roberto Prado)

Falará sobre

Uniform Singular Continuous Spectrum and α -continuity for 1D Sturmian Dirac Operators.

We establish spectrum purely singular continuous of zero Lebesgue measure for a family of discrete one-dimensional Dirac operators with Sturmian potentials, uniformly on all the parameters that define the potentials and for all mass $m \geq 0$. We prove for irrational rotation numbers of bounded density that for every value of the coupling constant and of the mass, there exists an number $\alpha \in (0, 1)$ such that the corresponding Dirac operator has purely α -continuous spectrum, uniformly for all phases. We also compare such α 's and lower bounds on exponents of transport for Sturmian Schrodinger and Dirac models.

Terça-feira, 14 de fevereiro, às 9h no Auditório