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Continuity of the Lyapunov Exponent for analytic quasiperodic cocycles with singularities

S. Jitomirskaya, C. A. Marx

(Submitted on 30 Jun 2011)

We prove that the Lyapunov exponent of quasi-periodic cocyles with singularities behaves continuously over the analytic category. We thereby generalize earlier results, where singularities were either excluded completely or constrained by additional hypotheses. Applications are one-parameter families of analytic Jacobi operators, such as extended Harper's model describing crystals subject to external magnetic fields.

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