Continuity of Lyapunov Exponent in Quasi-Periodic Cocycles

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Abstract. The continuity of Lyapunov exponent plays an important role for many problems in quasi-periodic cocycles. One example is the Ten Martini problem. It is well known that the Lyapunov exponent is continuous in analytic topology and discontinuous in $C^0$-topology. In this talk, we will provide quasi-periodic cocycles at which the Lyapunov exponent is not continuous in $C^l$-topology with $0 \leq l \leq +\infty$. (Joint work with Jiangong You)