

## **Reducibility of quasi-periodic symplectic cocycles**

*Yi Pan*

Abstract: Reducibility of quasi-periodic symplectic cocycles is related to the spectrum of discrete Schrödinger operators on strips. We will talk about a global reducibility result: given one parameter family of such analytic cocycles, for almost every parameter, either the maximal Lyapunov exponent is positive, or the cocycle is analytically (almost) conjugate to some precise model. The techniques include Kotani theory, KAM theory and in particular study of hyperbolicity of renormalization operator. This is a joint work with Artur Avila and Raphaël Krikorian.