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Jared C Bronski*, 1409 W Green St, Urbana, IL 61801. *Stability of quasiperiodic solutions to nonlinear Schrödinger type equations.*

We consider the stability of quasi-periodic solutions to standing and traveling wave solutions to nonlinear dispersive equations of nonlinear Schrödinger type. We prove a result concerning the spectrum of the linearized operator in the neighborhood of the origin in the spectral plane that can be considered to be a rigorous form of the Whitham modulation theory. (Received September 20, 2016)