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**Clark Robinson\*** ([clark@math.northwestern.edu](mailto:clark@math.northwestern.edu)), Department of Mathematics, Northwestern University, Evanston, IL 60208. *Shadowing orbits for transition chains of invariant tori.*

A topological method is used to prove the existence of diffusing orbits for a Hamiltonian system that shadow transition chains of invariant tori and cross Birkhoff zones of instabilities. (Received August 01, 2007)