

Vadim Kaloshin (University of Maryland and Penn State). *Arnold diffusion through a double resonance: an example of Hedlund type.*

Abstract. During the talk we describe an example of a nearly integrable Hamiltonian system on the 3-dimensional torus with the following property. There are trajectories whose velocity changes freely inside all 3 coordinate planes. In particular, such trajectories pass through double resonances where behavior has interesting features. This is a joint work with Mark Levi and Maria Saprykina.