## Department of Mathematics, BGU

# Colloquium

**On** *Tuesday, November 7, 2017*

**At** *14:30 − 15:30*

**In** *Math -101*

YAKOV PESIN (PENN STATE UNIVERSITY)

will talk about

## Path connectedness of the space of hyperbolic ergodic measures

ABSTRACT: In 1977 Sigmund proved that the space of ergodic measures supported on a basic set of an Axiom A diffeomorphism is path connected. In the talk I will describe a substantial generalization of this result to the space of hyperbolic ergodic measures supported on an isolated homoclinic class of a general diffeomorphism. Such homoclinic classes should be viewed as basic structural elements of any dynamics. Examples will be discussed. This is a joint work with A. Gorodetsky.