
ALEX GRIGO, University of Oklahoma

A study of a billiard like dynamical system

Billiard like systems are popular models in statistical mechanics and dynamical systems theory. In this talk I will present one such model, which is a mathematically simplified version of a popular interacting particle system. I will show how an averaging theorem can be established to extract a transport law that in the many particle system context has been studied by many numerical and physical experiments as well as kinetic theory.