

המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 31 בדצמבר, 2024

בשעה 14:30 – 15:30

ב-101 Math

ההרצאה

Dynamical Smooth for Measures Physical Systems

חינתן על-ידי

University) State (Penn Ovidia Ben Snir

תקציר: Given a dynamical system which admits chaos, its possible equilibria are studied through the collection of invariant measures (i.e. the probability of the system being in a particular state at a given time). This time-evolution of the system under change of parameters is often of great importance. In particular, we are interested in the case where the system is large and complex, and we wish to understand its behavior in terms of physical measures. In this talk, we will discuss recent results on the existence of SRB measures (invariant measures with a physical interpretation) for dynamical systems. We will also discuss the role of these measures in the study of chaos and the existence of physical measures in dynamical systems.