

“The thing is, it’s very dangerous to have a fixed idea. A person with a fixed idea will always find some way of convincing himself in the end that he is right.”

— Atle Selberg

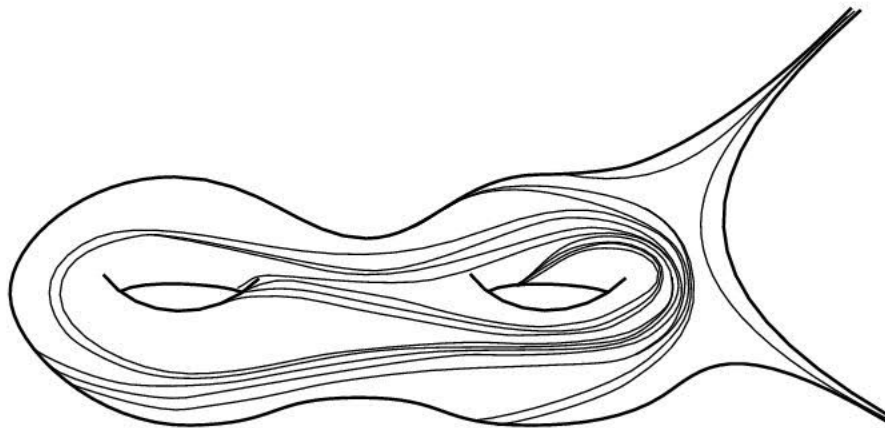
The Trivial Notions Seminar Proudly Announces

Primes, Periodic Points and Closed Geodesics

A talk by
Yusheng Luo

Abstract

Are the above three different concepts in number theory, dynamics and geometry related? In this talk, we will see the connection between them via zeta functions. Zeta functions have generally been associated with problems like meromorphy, Euler product formula, locations of poles and zeros. We will discuss these problems for Ruelle zeta function (for Anosov diffeomorphisms and Anosov flows) and Selberg zeta function (for hyperbolic surfaces). We will also use the properties of the zeta function to find the analogue of Prime Number Theorem.



Thursday, November 5th, at 1:00 pm
Science Center 222