Temple University Mathematics Colloquium

R. Inanc Baykur

Max Planck Institute and Brandeis University

will speak on

Exotica in dimension four

ABSTRACT: Four dimensional manifolds are mathematical models of our universe. During the past three decades, ideas and methods from geometry, topology and physics disclosed a phenomenon unique to this dimension: the existence of families of infinitely many distinct differentiable four-manifolds which are all the same up to homeomorphisms. How does one find such spaces? How to pass from one another? The purpose of this talk is to explain these questions and present our best answers to them up to date.

Wednesday, January 23, 2013
Lecture at 4:00 pm
Coffee, tea, and refreshments from 3:40 pm
Room 617, Wachman Building
Department of Mathematics