



# HACETTEPE ÜNİVERSİTESİ MATEMATİK BÖLÜMÜ GENEL SEMİNERİ

## (HACETTEPE UNIVERSITY MATHEMATICS GENERAL SEMINAR)

**Tarih (Date):** 20.04.2016, Çarşamba (Wednesday)

**Saat (Time):** 15:00

**Yer (Place):** Yaşar Ataman Seminer Salonu

**Konuşmacı (Speaker):** Prof. Dr. Marat Akhmed, ODTU

**Başlık (Title):** Dynamical systems& chaos

### **Özet (Abstract):**

We will discuss why the 21-st century may be considered by mathematicians as an age of biology, in particular, brain activity investigation; why dynamical systems theory can be divided into the prechaotic era and the chaotic era of development; what the next focus of applications of nonlinear dynamics is; why chaos is important in this new era of biology and brain activity; why chaos was not needed in the 20 century so much; how chaos is related to information processing and consequently for robotics, brain activity and chaotic computations; and what the role of self-organization for brainactivity is. We will provide information about our own research regarding the above problems.