Email: efrat.levitsky@weizmann.ac.il * Phone: (08)9343349 * Fax: (08)9344308

THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

Room 261, Ziskind Building
on Wednesday, Dec 30, 2015
at 11:00

Mikhail Borovoi
Tel Aviv University

Real Galois cohomology of semisimple groups

Abstract:

In a 2-page note of 1969, Victor Kac described automorphisms of finite order of simple Lie algebras over the field of complex numbers C. He used certain diagrams that were later called Kac diagrams. In this talk, based on a joint work with Dmitry Timashev, I will explain the method of Kac diagrams for calculating the Galois cohomology set $H^1(R,G)$ for a connected semisimple algebraic group $G$ over the field of real numbers $R$. I will use real forms of groups of type $E_7$ as examples. No prior knowledge of Galois cohomology, Kac diagrams, or groups of type $E_7$ will be assumed.