



Frontiers of Mathematics Lecture

Infinite dimensional algebras and superalgebras

Professor Efim Zelmanov

R. Atkinson Chair Professorship
University of California, San Diego, USA

Date : September 13, 2019 (Friday)

Time : 3:00 – 4:00 pm

Venue : Wang Gungwu Lecture Hall, Graduate House,
The University of Hong Kong



Abstract

Superalgebras and Superanalysis got their names and became popular because of their links to Supersymmetry in Physics. We will discuss basic examples of infinite dimensional Lie superalgebras (that originated in Physics), attempts at their classification and possible representation theories.

The talk will be accessible to a general mathematical audience.

Biography

Efim Zelmanov holds R. Atkinson Chair Professorship at the University of California - San Diego. He is also a scientific director of the Center of Mathematics at SusTech (Shenzhen), a distinguished visiting professor at the Institute for Advanced Study in Seoul and a former distinguished visiting professor at the HKU.

Zelmanov's area of research is Algebra.

In 1994 he was awarded Fields Medal for his work in Group Theory and Lie Algebras. He is a member of the National Academy of Sciences of the USA and a Foreign Member of the Royal Academy of Spain, Korean Academy of Sciences and the Academy of Sciences of Brazil.