

Gregory Margulis – LMS Honorary Member citation

Short citation:

The London Mathematical Society has elected Professor Gregory Margulis for his work on dynamical systems, including applications to graph theory and Diophantine approximation.

Long citation:

The London Mathematical Society has elected Professor Gregory Margulis of Yale University

for his work on dynamical systems, including applications to graph theory and Diophantine approximation. He devised a new ergodic method to count geodesics in negatively curved spaces. At this time, together with David Kazhdan, he solved a conjecture of Selberg concerning the growth of subgroups of Lie groups.

Margulis made ground-breaking contributions to the theory of lattices in Lie groups, including the proof of the rigidity of arithmetic lattices. In 1978, he was awarded the Fields Medal for his work regarding lattices in semisimple Lie groups. For this work he was awarded the Fields Medal in 1978.

At the Institute for Problems of Information Transmission in Moscow, he did pioneering