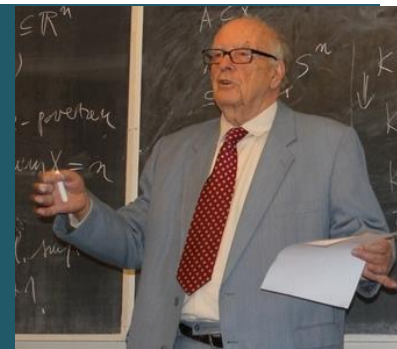




Kolokvij Matematičkog odsjeka "Sibe Mardešić"



Professor Victor Kac received his A.B. in 1965 and his PhD in 1968 from Moscow State University. Ernest Vinberg was his scientific advisor.

Professor Kac taught at the Moscow Institute of Electronic Machine Building in 1968-1976 prior to emigrating to the US and joining MIT mathematics faculty in 1977 (professor 1981).

The research of Professor Kac primarily concerns representation theory and mathematical physics.

Professor Kac received the medal of the College de France (1981), and the Eugene Wigner medal (1994). He holds research appointments: the Chaire Condorcet at Ecole Normale Supérieure (1998), the Sackler Fellowship, IHES (1999), the Simons Research Visiting Professorship, MSRI (2002), and the Sarojini Damadaran Fellowship, Tata Institute for Fundamental Research (2003), and the Simons Fellowship (2012).

Professor Kac was a plenary speaker at the AMS centennial conference in 1988 and at the ICM in 2002.

He is an honorary member of the Moscow Mathematical Society (1998), fellow of the American Academy of Arts and Sciences (2007), and member of the National Academy of Sciences (2013). In 2015, he received the Steele Prize for Lifetime Achievement of the AMS. In 2019 he received a Simons Fellowship in Mathematics.

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COMPLEXITY OF REPRESENTATIONS OF QUIVERS

Victor Kac

Massachusetts Institute of Technology

ABSTRACT

The basic results on representation theory of quivers will be reminded, including connections to Kac-Moody Lie algebras. The proof that one can verify in polynomial time whether a representation of a quiver is absolutely indecomposable will be outlined. Relation to the P vs NP problem will be explained.