

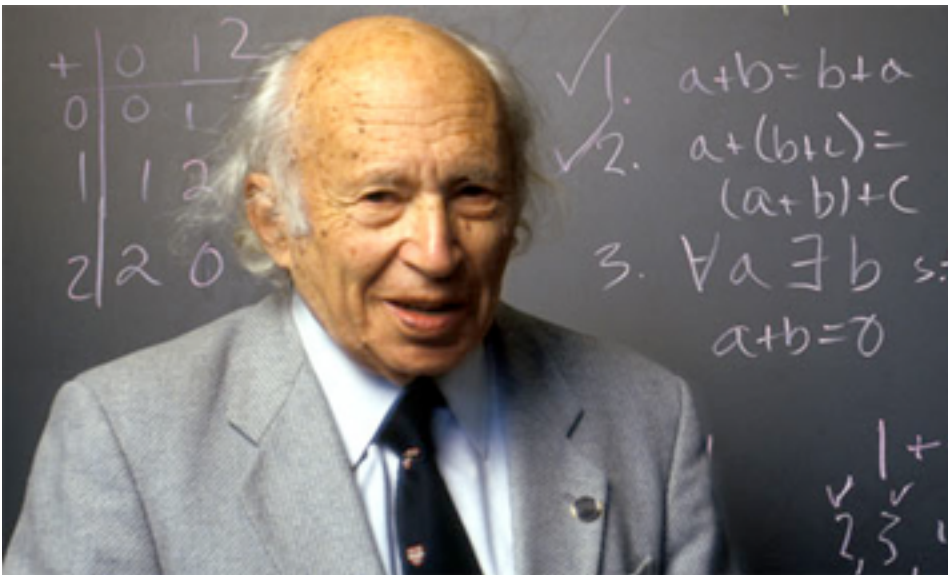
The Oliver Club

www.math.cornell.edu/~oliver/

Vladimir Retakh, Rutgers University

From Factorizations of Noncommutative Polynomials to Combinatorial Topology

In prelude to this lecture, I will say a few words about Israel Gelfand (who passed away in October 2009) and his legendary Seminar (www.math.rutgers.edu/~vretakh/gelfand-memorial-retakh.pdf). In the main part, I will give a survey of an area originated by Gelfand and the speaker around 1995. I will associate to a directed graph (ranked quiver) a noncommutative algebra and a certain polynomial over this algebra together with its factorizations. To any cell complex there corresponds such a quiver and, therefore, the noncommutative algebra. I will discuss connections between the properties of the algebra and the topological structure of the complex.



Friday, February 12, 2010
at 3:30 PM in 406 Malott Hall

Refreshments will be served at 3:00 PM in the Mathematics Department lounge (532 Malott Hall).