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Roots of Graph Polynomials

As R.C. Rota said, "...all sorts of problems of combinatorics can be viewed as problems of location of the zeros of certain polynomials and in giving these zeros a combinatorial interpretation". In this talk we will discuss new and old approaches for investigating the roots of graph polynomials. We will discuss the nature and location of the roots of network reliability polynomials, vertex cover polynomials and chromatic polynomials, among others.