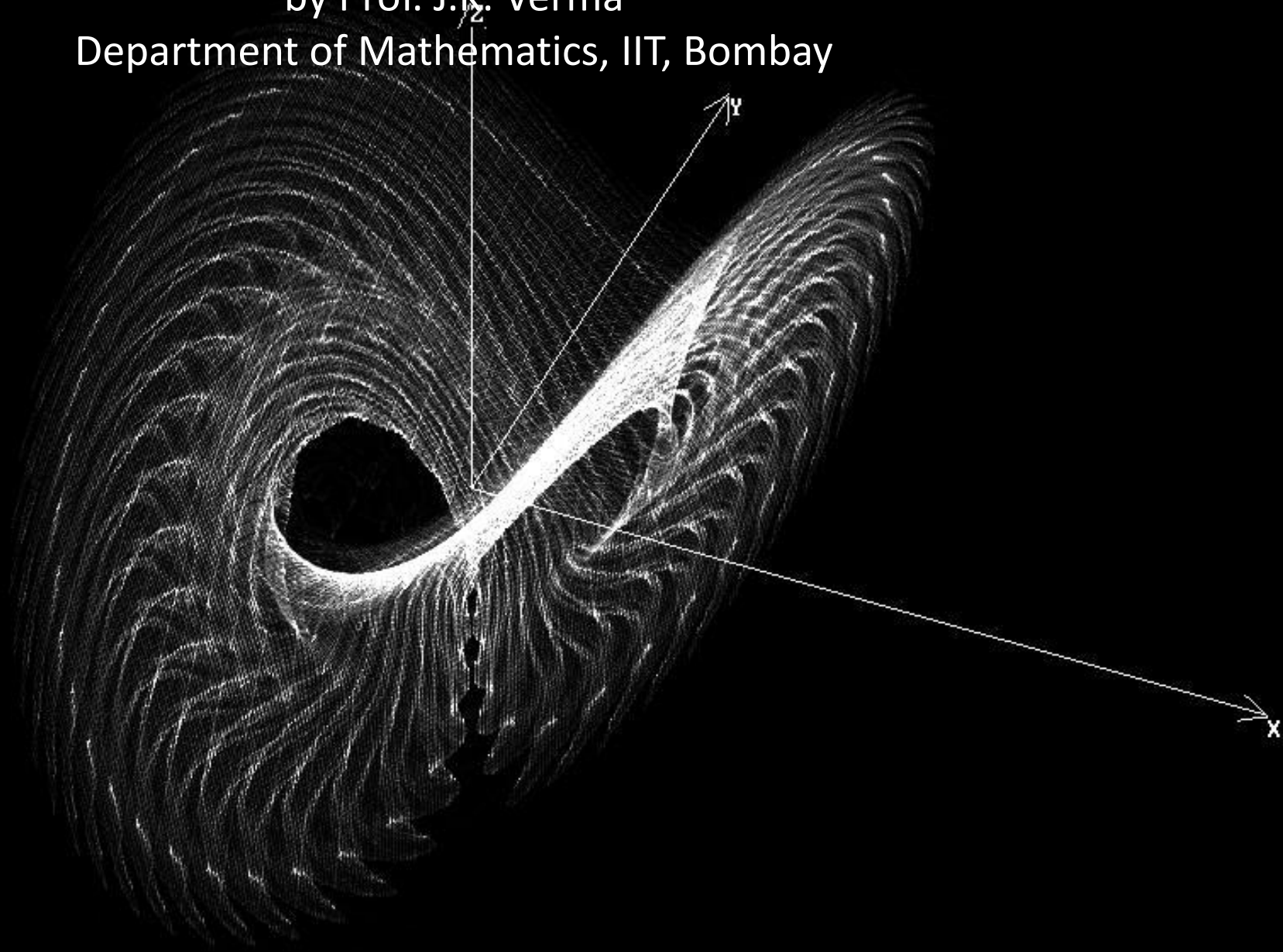


Polynomial Equations

by Prof. J.K. Verma
Department of Mathematics, IIT, Bombay



Every complex polynomial has a complex root. A generalisation of this theorem to polynomials in several variables will be presented. This theorem, due to Bernstein links the number of common solutions of several complex polynomial equations with volumes of their Newton polytopes. A celebrated theorem of Bezout about intersections of plane curves follows as a simple consequence.

Prof. J. K. Verma obtained his M.Sc. from BITS, Pilani in 1981 and Ph.D. from Purdue University in 1987. He joined the Department of Mathematics of IIT, Bombay in 1990 where he continues his teaching and research activities. He is a Fellow of the National Academy of Sciences, Allahabad, and the International Centre for Theoretical Physics, Trieste, Italy. He has several publications to his credit and is actively involved in an honorary capacity with the National Board for Higher Mathematics.

Tuesday, 23 August 2011 at 2.30 p.m.

Seminar Room, PG AG 14

Near Annabhau Sathe Bhavan, University of Mumbai
Vidyanagari Campus, Kalina, Mumbai 400098