On The Bouniakowsky Conjecture
And The Roots Of Polynomials
To Prime Moduli

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Venue: SPMS-Executive Classroom 1, MAS-03-06
School of Physical and Mathematical Sciences

This talk relates the conjecture that an irreducible polynomial with integer coefficients represents infinitely many primes, to the way roots of a polynomial to prime moduli, suitably normalized, are located in the unit interval (0,1). The conjecture is known as the Bouniakowsky conjecture and a more general form is Schinzel's Hypothesis H. Various theorems are known in regards to the roots of polynomials to integer moduli. Equidistribution has been proven for quadratic polynomials to prime moduli by Duke, Friedlander, Iwaniec, and Toth, and for any irreducible polynomial to integer moduli by Hooley.

Host: Prof. Zhao Liangyi, Division of Mathematical Sciences, School of Physical and Mathematical Sciences
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