Special Colloquium

DR. XIU-XIONG CHEN
OF STONY BROOK UNIVERSITY, STONY BROOK, NEW YORK

"Kaehler Einstein metrics on Fano manifolds"

Abstract:

In the 1980s, Yau conjectured that the existence of a Kaehler Einstein metric on a Fano manifold is related to an algebraic geometric condition of "stability." The recent work with Donaldson and Sun Song confirmed this conjecture. In the talk, we will review the history of this problem, and we also will review earlier work of G. Tian and others on this problem. We will outline the strategy of proof, which involves deforming through metrics with cone singularities. If time permits, we will give more details about various aspects of the proof.

Tuesday, February 12th

In

The 2nd Floor of the Surge Building, Room 284

Tea, Coffee & Cookies at 3:40 p.m.

The Talk Begins at 4:10 p.m.

And Ends at 5:00 p.m.

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