

d=4 N=2 Field Theory And Physical Mathematics

Wednesday, 12 July 2017 14:00 (1 hour)

[Colloquium.] I will explain the meaning of the two phrases in the title. Much of the talk will be a review of the renowned Seiberg-Witten formulation of the low-energy physics of certain four dimensional supersymmetric interacting quantum field theories. In the latter part of the talk I will briefly describe some of the significant progress that has been made in solving for the so-called BPS sector of the Hilbert space of these theories. Investigations into these physical questions have had a nontrivial impact on mathematics.

Presenter: MOORE, Gregory (Rutgers University)