

Geometry, Groups and Dynamics/GEAR Seminar  
(held at the Illinois hub of GEAR )

**1:00 pm, Thursday, November 5, 2015, 243 Altgeld Hall**

John P. D'Angelo (Illinois)

Proper holomorphic mappings throughout mathematics

Abstract: After a brief review of the relationship between proper mappings and CR geometry, we consider in detail proper holomorphic mappings between balls. We discuss spherical equivalence, homotopy equivalence, and Hermitian analogues of Hilbert's  $n$ -th problem. If time permits we will introduce a complex variety associated with a rational proper map and state a sharp variational inequality for the volumes of images of proper polynomial mappings between balls.

No video available.