

BI-CO MATHEMATICS COLLOQUIUM

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*“Enumerative Geometry, Combinatorics,
and Algebra.”*

Monday, September 29, 2008

Talk at 4:15 – Park 328
Tea at 3:45 – Park 355, Math Lounge

Abstract:

It is a classical problem to count the number of geometric objects satisfying certain conditions, for example the number of conics passing through five points. In the nineteenth century, based on the "principle of conservation of number", Hermann Schubert developed methods to answer certain enumerative geometry questions. I will describe Schubert calculus, discuss its connections to combinatorics and algebra, and mention modern techniques, recent results, and new directions and problems.

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