The Olivetti Club Presents
Timothy E. Goldberg

Thursday, 4:25 pm
4 October 2007
406 Malott

A little taste of symplectic geometry

Symplectic geometry is a rich and fascinating field of study, which incorporates and has applications to many other areas of mathematics. I will give a little taste of what symplectic geometry is about, including lots of examples. Terms like "moment map" and "convexity theorem" are likely to appear. This will culminate in the pleasant Schur-Horn theorem about isospectral sets of Hermitian matrices, and a discussion of how it is a special case of the convexity theorem from symplectic geometry.

For the audience, a good working knowledge of multivariable calculus, group theory, and linear algebra should suffice nicely.

Refreshments will be served at 3:55 pm in the math lounge.