

## Joint IAS-PU Symplectic Geometry Seminar

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A Reverse Isoperimetric Inequality for J-Holomorphic curves

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**Date & Time:** Fri, 11/30/2012 - 11:00 - 12:00

**Location:** Fine Hall 401

I'll discuss a bound on the length of the boundary of a J-holomorphic curve with Lagrangian boundary conditions by a constant times its area. The constant depends on the symplectic form, the almost complex structure, the Lagrangian boundary conditions and the genus. A similar result holds for the length of the real part of a real J-holomorphic curve. The infimum over J of the constant properly normalized gives an invariant of Lagrangian submanifolds. The invariant is  $2\pi$  for the Lagrangian submanifold  $RP^n \subset CP^n$ . The bound can also be applied to prove compactness of moduli of J-holomorphic curves to asymptotically exact targets. These results are joint work with Yoel Groman.

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Tue, 07/31/2012 - 19:55

Wed, 11/21/2012 - 14:49

terms:

- [School of Mathematics](#)