



UNIVERSITY OF
TORONTO

DEPARTMENT OF
MATHEMATICS

Presents

The 18th Annual R.A. Blyth Lectures in Mathematics



Yakov Eliashberg
(Stanford University)

From Stein to Weinstein and back: an interplay between complex and symplectic geometries

Symplectic geometry governs many phenomena in the theory of functions of several complex variables. In particular, a Stein complex manifold has a symplectic counterpart, called Weinstein manifold. In three lectures there will be discussed symplectic geometry of Weinstein manifolds and its role in complex analysis.

In the first lecture we will overview the picture and the character of the results. In the second lecture we will travel the “road from Stein to Weinstein” exploring symplectic geometry and topology of Weinstein manifolds. Finally in the last lecture we will travel “the road from Weinstein to Stein” bringing back some complex-analytic fruits from our symplectic-geometric journey.

The interplay between Stein and Weinstein structures is a subject of our joint book with Kai Cieliebak, “From Stein to Weinstein and back” which will be published by the AMS in December 2012.

Further information and detailed abstracts for each lecture can be found at:
<http://www.math.toronto.edu/cms/blyth-lecture-series>

Lecture 1: March 25, 2013 @ 4:00pm in BA1180

Lecture 2: March 26, 2013 @ 4:00pm in BA1240

Lecture 3: March 27, 2013 @ 4:00pm in BA1180

All rooms are located in the Bahen Center for Information Technology at 40 St George St

A Reception will follow Lecture 1 in the
Mathematics Lounge, 6th floor, Bahen Centre
Food and Beverages will be Provided
All are Welcome

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