

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

**SPECIAL LAGRANGIANS WITH
BOUNDARIES IN RATIONAL ELLIPTIC
SURFACES**

Yu-Shen Lin
Department of Mathematics
Columbia University

March 29, 2017, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: In this talk, we will define a count the special Lagrangian discs in rational elliptic surfaces with boundaries on elliptic fibres. These countings will jump as the boundary conditions vary and the jumps of the invariants satisfy some interesting algebraic identities, known as the Kontsevich–Soibelman wall-crossing formula. In particular, our result generalizes some gluing theorem of conical special Lagrangian submanifolds by Joyce. Moreover, we provide the existence of a lot more special Lagrangians which do not arise from the standard gluing techniques.

See <http://math.bu.edu/research/geom/seminar.html> or contact Lino Amorim (lamorim@bu.edu) or Siu Cheong Lau (lau@math.bu.edu) for more information.