

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

**AUGMENTATIONS AND IMMERSED EXACT
LAGRANGIAN FILLINGS**

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April 11, 2018, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: The set of augmentations is an invariant of a Legendrian knot, which is well corresponded with the set of exact Lagrangian fillings of the Legendrian knot. This correspondence sheds a light on the correspondence between the augmentation category of 3d contact manifold and the wrapped Fukaya category of 4d symplectic manifold. However, the correspondence is good in one direction but not good in the other direction. In particular, exact Lagrangian fillings give augmentations. But not all the augmentations come from embedded exact Lagrangian fillings. In this talk, we fulfill this correspondence by showing that all the augmentations come from possibly immersed exact Lagrangian fillings. This is a joint work with Dan Rutherford.

See <http://math.bu.edu/research/geom/seminar.html> or contact Yoosik Kim (yoosik@bu.edu) or Siu-Cheong Lau (lau@math.bu.edu) for more information.