

Constructible sheaves via augmentations for Legendrian surfaces

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Given an augmentation for the Legendrian contact homology of a Legendrian surface in a contact one-jet space, I will show how to produce a micro-local rank 1 constructible sheaf whose singular support is controlled by the surface. The proof is to interpret the linearized Legendrian cellular homology (a local combinatorial reformulation of Legendrian contact homology) like an infinity-local system.

This is joint work in progress with Dan Rutherford.