Sivek: The augmentation category of a Legendrian knot

January 21, 2016 4:11 PM

Blue: DRSV comments.

How about an introduction? I'm about to talk about....

.... standard intro to Hamiltonian mechanics in T^*M.

The correspondence $\{H\} \longleftrightarrow \{X_H\}$ is encoded by a 2-form $\omega = \sum_{i=1}^{n} dp_i \wedge dq_i$, using

$$\omega(X_H, \cdot) = -dH$$

properties of ω:

1. closed
2. ω^N is a volume form.

} "symplectic form"

Def $L^n \subset T^*M$ is Lagrangian if .....

Examples: 1. the 0 section.

2. The graph of df for $f: M \to \mathbb{R}$

.... "the nearby Lagrangian Conjecture".

Microlocalization (Nadler-Zaslow 2006) Correspondence between {constructible sheaves on M} and {exact Lagrangians in T^*M}

4:42: "The goal of this talk...."