

Chekanov-Eliashberg dg-algebras for Weinstein domains in contact manifolds

jeudi 5 juillet 2018 10:00 (1 heure)

Let W be a Weinstein manifold then the product of W and the real line is naturally a contact manifold. We consider contact embeddings of a small neighborhood a W -slice in this manifold and construct the Chekanov-Eliashberg dg-algebra of such embeddings. When W is a cotangent neighborhood of a smooth Legendrian the definition agrees with the Chekanov-Eliashberg algebra of the smooth Legendrian with coefficients in chains in the based loop space. The construction gives gluing formulas for Fukaya categories.

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