

Generators of the wrapped Fukaya category of Weinstein sectors

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Weinstein sectors are a version of Weinstein manifolds with boundary introduced by Ganatra, Pardon and Shende. They admit a handle decomposition by Weinstein handles and half-handles. I will prove that the wrapped Fukaya category of a Weinstein sector is generated by the completion of the cocores of the critical Weinstein handles and half handles. The proof relies on four ingredients: a definition of the wrapped Floer homology for certain immersed Lagrangians using augmentations of the Chekanov-Eliashberg algebra of their Legendrian lifts as bounding cochains, a vanishing result for the wrapped Floer homology of an immersed Lagrangian which is disjoint from the skeleton, the interpretation of certain Lagrangian surgeries as cones in the wrapped Fukaya category, and finally a construction of bounding cochains.

This is a joint work with Baptiste Chantraine, Georgios Dimitroglou Rizell and Roman Golovko.