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Sheel C. Ganatra* (ganatra@math.mit.edu). *On the Hochschild (co)homology of the Fukaya Category*. Preliminary report.

Let M be an exact symplectic manifold. We prove that if M has enough Lagrangians, then the symplectic cohomology of M is isomorphic to both the Hochschild homology and cohomology of M 's wrapped Fukaya category. Some ingredients in the proof are: Fourier-Mukai theory for the wrapped Fukaya category via holomorphic quilts, a version of the Cardy condition, and a new self-duality for the wrapped Fukaya category (a non-compact version of the Calabi-Yau condition). (Received February 11, 2012)