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On Monoidal structures on Fukaya categories

Abstract: Unlike many categories arising in algebra, the Fukaya category of a symplectic manifold X does not automatically carry a monoidal structure. It turns out that monoidal structures on the Fukaya category are related to symplectic groupoid structures on X . This in turn connects to Poisson geometry, since a symplectic groupoid is an "integration" of a Poisson manifold. I will outline these connections and provide some applications to the case of cotangent bundles.