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Derived symplectic structures and quantization

Abstract - I will introduce a derived algebro-geometric version of symplectic structures, briefly sketch the expected relation to quantization of derived categories, and give existence results for derived symplectic structures as well as applications to underived symplectic moduli spaces and to symmetric obstruction theories.

This is part of a joint project with T. Pantev, B. Toën and M. Vaquié.