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Title: Calabi–Yau structures on (quasi-)bisymplectic algebras

Abstract: The Kontsevich–Rosenberg principle of noncommutative algebraic geometry says that a structure on an associative algebra A has a (noncommutative) geometric meaning whenever it induces a genuine corresponding geometric structure on representation spaces. This principle led to the discovery of bisymplectic structures such that the associated representation spaces are respectively hamiltonian GL_n -varieties. On the other hand, in higher algebra, one can consider Calabi–Yau structures on differential graded categories which induce in the world of derived algebraic geometry shifted symplectic structure on the respective derived moduli stacks. We show that relative Calabi–Yau structures on noncommutative moment maps give rise to (quasi-)bisymplectic structure. This is based on joint work with Bozec–Calaque.