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Quantum cohomology of coadjoint varieties

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IGT-Seminarraum 7.530, Pfaffenwaldring 57

Abstract: Quantum cohomology is defined by deforming the usual cup-product using the genus zero Gromov-Witten invariants. We'll begin with a background on quantum cohomology and its role in mirror symmetry. Then we will discuss properties of quantum cohomology, both small and big, of coadjoint varieties of simple algebraic groups. If time permits, we'll make predictions on the structure of the derived category of coherent sheaves of coadjoint varieties. The talk is based on the joint work with Nicolas Perrin.

