I M B M

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ON QUANTUM COHOMOLOGY AND DERIVED CATEGORIES OF HOMOGENEOUS SPACES

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Abstract

We'll begin with a brief survey of the history of enumerative geometry. Then we'll discuss some background on Gromov-Witten invariants and quantum cohomology. Afterwards, we'll formulate some results on quantum cohomology, both small and big, of coadjoint varieties of simple algebraic groups. Finally, we'll relate these results to the structure of the bounded derived category of coherent sheaves and state some general conjectures.

Date : Wednesday, May 17, 2023
Time : 13:30
Place: TB130, Boğaziçi University, South Campus