

SEMINARIO DI GEOMETRIA

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A motivic wall-crossing formula for sheaves on 3-folds

Given a smooth 3-fold Y containing a smooth curve C , the Quot scheme of n points of the ideal sheaf of C carries a virtual motive in the sense of Behrend-Bryan-Szendroi. We show that these motivic classes satisfy a wall-crossing formula similar to the one fulfilled by the enumerative invariants that they refine. In the CY 3-fold case, this sometimes gives an instance of wall-crossing behavior for the motivic Donaldson-Thomas invariants. Joint work with Ben Davison (Edinburgh).