

# TOPICS IN ALGEBRAIC GEOMETRY

Fall 2020

## Main Reference

[dCM05] Mark Andrea A. de Cataldo and Luca Migliorini. The Hodge theory of algebraic maps. *Ann. Sci. École Norm. Sup. (4)*, 38(5):693–750, 2005.

## Survey Articles

[dC17] Mark Andrea de Cataldo. Perverse sheaves and the topology of algebraic varieties. In *Geometry of moduli spaces and representation theory*, volume 24 of *IAS/Park City Math. Ser.*, pages 1–58. Amer. Math. Soc., Providence, RI, 2017.

[dCM09] Mark Andrea A. de Cataldo and Luca Migliorini. The decomposition theorem, perverse sheaves and the topology of algebraic maps. *Bull. Amer. Math. Soc. (N.S.)*, 46(4):535–633, 2009.

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## History

[dCM10] Mark Andrea de Cataldo and Luca Migliorini. What is... a perverse sheaf? *Notices Amer. Math. Soc.*, 57(5):632–634, 2010.

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