

Papers and preprints by Kieran O'Grady

February 17, 2023

1. K. G. O'Grady. *The Hodge structure of the intersection of three quadrics in an odd-dimensional projective space*, Math. Ann. 273 (1986), no. 2, 277–285.
2. K. G. O'Grady. *On the Picard group of the moduli space for K3 surfaces*, Duke Math. J. 53 (1986), no. 1, 117–124.
3. K. G. O'Grady. *On the Kodaira dimension of moduli spaces of abelian surfaces*, Compositio Math. 72 (1989), no. 2, 121–163.
4. K. G. O'Grady. *Algebraic-geometric analogues of Donaldson's polynomials*, Invent. Math. 107 (1992), no. 2, 351–395.
5. K. G. O'Grady. *Donaldson's polynomials for K3 surfaces*, J. Differential Geom. 35 (1992), no. 2, 415–427.
6. K. G. O'Grady. *The irreducible components of moduli spaces of vector bundles on surfaces*, Invent. Math. 112 (1993), no. 3, 585–613.
7. J. W. Morgan - K. G. O'Grady. *Differential topology of complex surfaces - Elliptic surfaces with $p_g = 1$: smooth classification*, Lecture Notes in Mathematics, 1545. Springer-Verlag, Berlin, 1993.
8. K. G. O'Grady. *Relations among Donaldson polynomials of certain algebraic surfaces. I*, Forum Math. 8 (1996), no. 1, 1–61.
9. K. G. O'Grady. *Moduli of vector bundles on projective surfaces: some basic results*, Invent. Math. 123 (1996), no. 1, 141–207.
10. K. G. O'Grady. *Relations among Donaldson polynomials of certain algebraic surfaces. II*, Forum Math. 8 (1996), no. 2, 135–193.
11. K. G. O'Grady. *The weight-two Hodge structure of moduli spaces of sheaves on a K3 surface*, J. Algebraic Geom. 6 (1997), no. 4, 599–644.
12. K. G. O'Grady. *Moduli of vector-bundles on surfaces*, Algebraic geometry—Santa Cruz 1995, 101–126, Proc. Sympos. Pure Math., 62, Part 1, Amer. Math. Soc., Providence, RI, 1997.
13. K. G. O'Grady. *Desingularized moduli spaces of sheaves on a K3*, J. Reine Angew. Math. 512 (1999), 49–117.
14. K. G. O'Grady. *A new six-dimensional irreducible symplectic variety*, J. Algebraic Geom. 12 (2003), no. 3, 435–505.
15. K. G. O'Grady. *Hyperkähler manifolds and Algebraic Geometry*, European Congress of Mathematics, 365–380, Eur. Math. Soc., Zurich, 2005.

16. K. G. O'Grady. *Involutions and linear systems on holomorphic symplectic manifolds*, Geom. Funct. Anal. 15 (2005), no. 6, 1223–1274.
17. K. G. O'Grady. *Irreducible symplectic 4-folds and Eisenbud-Popescu-Walter sextics*, Duke Math. J. 134 (2006), no. 1, 99–137.
18. K. G. O'Grady. *Irreducible symplectic 4-folds numerically equivalent to $(K3)^{[2]}$* , Commun. Contemp. Math. 10 (2008), no. 4, 553–608.
19. K. G. O'Grady. *Dual double EPW-sextics and their periods*, Pure Appl. Math. Q. 4 (2008), no. 2, 427–468.
20. K. G. O'Grady. *EPW-sextics: taxonomy*, Manuscripta Math. 138 (2012), no. 1, 221–272.
21. K. G. O'Grady. *Higher-dimensional analogues of K3 surfaces*, Current developments in algebraic geometry, Math. Sci. Res. Inst. Publ., 59, C.U.P. (2012), 257–293.
22. K. G. O'Grady. *Double covers of EPW-sextics*, Michigan Math. J. 62 (2013), 143–184.
23. K. G. O'Grady. *Moduli of sheaves and the Chow group of K3 surfaces*, J. Math. Pures Appl. 100 (2013), 701–718.
24. K. G. O'Grady. *Pairwise incident planes and Hyperkähler four-folds*, “A celebration of Algebraic Geometry” Clay Mathematics Proceedings 18 (2013), 553–566.
25. K. G. O'Grady. *Computations with modified diagonals*, Rendiconti Lincei Matematica e Applicazioni 25 (2014), 249–274.
26. K. G. O'Grady. *Periods of double EPW-sextics*, Math. Z. 280 (2015), 485–524.
27. K. G. O'Grady. *Moduli of double EPW-sextics*, Mem. Amer. Math. Soc. 240 (2016), no. 1136.
28. K. G. O'Grady. *Decomposable cycles and Noether-Lefschetz loci*, Doc. Math. 21 (2016), 661–687.
29. R. Laza - K. G. O'Grady. *GIT versus Baily-Borel compactification for quartic K3 surfaces*, Geometry of Moduli, Abel Symposia 14 (2018), 217–283.
30. R. Laza - K. G. O'Grady. *Birational geometry of the moduli space of quartic K3 surfaces*, Compositio Mathematica 155 (2019), 1655–1710.
31. O. Debarre - F. Han - K. G. O'Grady - C. Voisin. *Hilbert squares of K3 surfaces and Debarre-Voisin varieties*, Journal de l'École polytechnique - Mathématiques 7 (2020), 653–710.
32. R. Laza - K. G. O'Grady. *GIT versus Baily-Borel compactification for K3's which are double covers of $\mathbb{P}^1 \times \mathbb{P}^1$* , Adv. Math. 383 (2021), Paper No. 107680, 63 pp.
33. K. G. O'Grady. *Compact tori associated to hyperkähler manifolds of Kummer type*, Int. Math. Res. Not. 2021, no. 16, 12356–12419.
34. K. G. O'Grady. *Moduli of sheaves on K3's and higher dimensional HK varieties*, Surveys in Differential Geometry XXIV (2021), 403–440.

- 35. K. G. O'Grady. *Modular sheaves on hyperkähler varieties*, Algebraic Geometry 9 (2022) 1–38.
- 36. L. Flapan, E. Macrì, K. G. O'Grady, G. Saccà. *The geometry of antisymplectic involutions, I*, Math. Z. 300 (2022), pp. 3457–3495.
- 37. K. G. O'Grady. *Rank 4 stable vector bundles on hyperkähler fourfolds of Kummer type* arXiv:2203.03987 [math.AG]
- 38. K. G. O'Grady. *Theta groups and projective models of hyperkähler varieties* arXiv:2204.09582 [math.AG]
- 39. K. G. O'Grady. *Rigid stable vector bundles on hyperkähler varieties of type $K3^{[n]}$* arXiv:2211.08970 [math.AG]