

Publication List for P.M.H. Wilson

Books and Research papers

- [1] (with M.J. Seaton). A frozen cores approximation for atomic structure calculations. *J. Phys. B : Atom. Molec. Phys.* 5 (1972), L1-3.
- [2] (with M.J. Seaton). A polarized core approximation for atomic structure calculations. *J. Phys. B : Atom. Molec. Phys.* 5 (1972), L175-177.
- [3] (with M.A. Crees, M.J. Seaton). IMPACT, a programme for the solution of the coupled integro-differential equations of Electron-Atom collision theory. *Comput. Phys. Commun.* 15 (1978), 445-450.
- [4] On blowing up conductor ideals. *Math. Proc. Cam. Phil. Soc.* 83 (1978), 445-450
- [5] The behaviour of the plurigenera of surfaces under algebraic smooth deformations. *Inventiones math.* 47 (1978), 289-299.
- [6] The arithmetic plurigenera of surfaces. *Math. Proc. Cam. Phil. Soc.* 85 (1979), 25-32.
- [7] The pluricanonical map on varieties of general type. *Bull. London Math. Soc.* 12 (1980), 103-107.
- [8] On complex algebraic varieties of general type. *Symposia Math.* XXIV (1981), 65-73.
- [9] On the canonical ring of algebraic varieties. *Compositio Math.* 43 (1981), 365-378.
- [10] Some questions on the canonical ring of threefolds of general type. In *Algebraic Threefolds, Proceedings, Varenna 1981*, pages 251-268. *Lecture Notes in Mathematics*, Springer 1982.
- [11] Threefolds with arithmetically effective canonical divisor. *Rend. Sem. Mat. Univers. Politecn. Torino* 41 (1983), 71-74.
- [12] Base curves of multicanonical systems on threefolds. *Compositio Math.* 52 (1984), 99-113.
- [13] On regular threefolds with $\kappa = 0$. *Inventiones Math.* 76 (1984), 345-355.
- [14] The components of mK_V for threefolds with $\kappa(V) = 0$. *Math. Proc. Cam. Phil. Soc.* 97 (1985), 437-444.
- [15] A note concerning the global 2-forms on a $\kappa = 0$ threefold. *Math. Proc. Cam. Phil. Soc.* 98 (1985), 191-194.
- [16] On projective manifolds with the same rational cohomology as \mathbf{P}^4 . *Rend. Sem. Mat.*

Univers. Politecn. Torino, Fascicolo Speciale on Algebraic Varieties of small dimension (1986), 15-23.

[17] Towards birational classification of algebraic varieties. Bull. London Math. Soc. 19 (1987), 1-48.

[18] Fano fourfolds of index greater than one. J. reine angew. Math. 379 (1987), 172-181.

[19] Calabi-Yau manifolds with large Picard number. Inventiones math. 98 (1989), 139-155.

[20] The Kähler cone on Calabi-Yau manifolds. Inventiones math. 107 (1992), 561-583. Erratum. Inventiones math. 114 (1993), 231-233.

[21] Elliptic ruled surfaces on Calabi-Yau threefolds. Math. Proc. Cam. Phil. Soc. 112 (1992), 45-52.

[22] Kähler Classes on Calabi-Yau threefolds - an informal survey. In : Essays on Mirror Manifolds (ed. S.-T. Yau), pp. 265-278. International Press, Hong Kong 1992. Revised and updated in : Mirror Symmetry I, (ed. S.-T. Yau), pp. 201-214. AMS, Providence, and International Press, Hong Kong, 1998.

[23] (with D.R. Heath-Brown) Calabi-Yau threefolds with $\rho > 13$. Math. Annalen 294 (1992), 49-57.

[24] Minimal Models of Calabi-Yau threefolds. In : Classification of Algebraic Varieties (ed. C. Ciliberto, E.L. Livorni and A.J. Sommese), pp. 403-410. Contemporary Math. Vol. 162. AMS 1994.

[25] (with N.I. Shepherd-Barron) Singular threefolds with numerically trivial first and second Chern classes. J. Alg. Geom. 3 (1994), 265-281.

[26] The existence of elliptic fibre space structures on Calabi-Yau threefolds. Math. Annalen 300 (1994), 693-703.

[27] (with T. Peternell) Threefolds with extremal Chern classes. In : Higher dimensional complex varieties - Proceedings of the International Conference, Trento 1994 (ed. M. Andreatta, T. Peternell), pp. 357-378. De Gruyter, Berlin- New York 1996.

[28] The role of c_2 in Calabi-Yau classification - a preliminary survey. In : Essays on Mirror Symmetry II (ed. B.R. Greene, S.-T. Yau), pp. 370-381. International Press, Hong Kong and AMS, Providence 1997.

[29] Symplectic deformations of Calabi-Yau threefolds. J. Diff. Geom. 45 (1997), 611-637.

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- [31] The existence of elliptic fibre space structures on Calabi–Yau threefolds, II. *Math. Proc. Cam. Phil. Soc.* 123 (1998), 259-262.
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- [33] (with M. Gross) Large complex structure limits of K3 surfaces. *J. Diff. Geom.* 55 (2000), 475-546.
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- [39] (with Paul S. Aspinwall, Tom Bridgeland, et al.) *Dirichlet Branes and Mirror Symmetry.* Clay Mathematics Monographs, vol. 4. AMS and Clay Mathematics Institute, 2009. ISBN 978-0-8218-3848-8. (Clay Mathematics Monograph, 681 pp.)
- [40] (with Thomas Trenner) Asymptotic curvature of moduli spaces for Calabi–Yau threefolds. *J. Geom. Anal.* 21 (2011), 409-428.
- [41] (with Atsushi Kanazawa) Trilinear forms and Chern classes of Calabi–Yau threefolds. *Osaka J. Math.* 51 (2014), 203-213.
- [42] Boundedness questions for Calabi–Yau threefolds. *J. Algebraic Geom.* 30 (2021), 631-684.
- [43] Calabi–Yau threefolds with Picard number three, preprint 2020 (32 pages). ArXiv: 2011.12876

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