

Schriftenverzeichnis

Thomas Peternell

1. Vektorraumbündel in der Nähe von kompakten komplexen Unterräumen, Math. Ann. 257, 111–134 (1981)
2. Vektorraumbündel in der Nähe von exzeptionellen Unterräumen – das Modulproblem. Journal f. d. reine und angew. Math. 336, 110–123 (1982)
3. Über exzeptionelle Mengen, *manuscr. math.* 37, 19–26 (1982), Erratum et Addendum. *ibid.* 42, 259–263 (1983)
4. Vektorraumbündel auf exzeptionellen Unterräumen. Arch. d. Math. 40, 175–181 (1983)
5. On strongly pseudo-convex Kähler manifolds. Inv. Math. 70, 157–168 (1982)
6. Fast-positive Geradenbündel auf kompakten komplexen Mannigfaltigkeiten. Journal f. d. reine und angew. Math. 356, 119–139 (1985)
7. Der Kodairasche Verschwindungssatz auf streng pseudo-konvexen Räumen 1. Math. Ann. 270, 87–96 (1985)
8. Der Kodairasche Verschwindungssatz auf streng pseudo-konvexen Räumen 2. Math. Ann. 270, 603–631 (1985)
9. Algebraicity criteria for compact complex manifolds. Math. Ann. 275, 653–672 (1986)
10. A rigidity theorem for $\mathbb{P}_3(C)$. *manuscr. math.* 50, 397–428 (1985)
11. On the rigidity of the complex projective space. Proceedings der Journées Complexes Nancy 1985. Ed. D. Barlet, Nancy 1986
12. Algebraic structures on certain 3-folds. Math. Ann. 274, 133–156 (1986)
13. Rational curves in Moishezon 3-folds. Proceedings der Arbeitstagung Göttingen 1985. Lecture Notes in Math. 1194, 133–144 (1986)
14. Vanishing theorems, linear and quadratic normality (mit J. le Potier, M. Schneider) *Inv. math.* 87, 573–586 (1987)
15. Direct images of sheaves of differentials and the Atiyah class (mit J. le Potier, M. Schneider) *Math. Zeitschr.* 196, 75–85 (1987)
16. Compactifications of \mathbb{C}^3 , I (mit M. Schneider). Math. Ann. 280, 129–146 (1988)

17. Compactifications of \mathbb{C}^3 , II. *Math. Ann.* 283, 121–137 (1989)
18. Singular surfaces and the rigidity of \mathbb{P}_3 . *manuscr. math.* 63, 69–82 (1989)
19. Formal cohomology, analytic cohomology and non-algebraic manifolds (mit S. Kosarew). *Comp. Math.* 74, 299–325 (1990)
20. Half canonical surfaces in \mathbb{P}^4 (mit W. Decker, M. Schneider, J. le Potier). *Proceedings of the Algebraic Geometry Meeting L'Aquila 1988. Lecture Notes in Math.* 1417, 91–110 (1990)
21. Compactifications of \mathbb{C}^3 , III. *Math. Z.* 205, 213–222 (1990)
22. On two conjectures of Hartshorne's (mit D. Barlet, M. Schneider). *Math. Ann.* 286, 13–25 (1990)
23. A characterization of \mathbb{P}_n by vector bundles. *Math. Z.* 205, 487–490 (1990)
24. Calabi-Yau manifolds and a conjecture of Kobayashi. *Math. Z.* 207, 305–318 (1991)
25. Ample vector bundles. *Intl. Journal Math.* 2, 311–322 (1991)
26. Algebraicity of the ample cone of algebraic varieties (mit F. Campana). *Crelles Journal* 407, 160–166 (1990)
27. Compactifications of \mathbb{C}^n – a survey (mit M. Schneider). *Proceedings of Symposia of Pure* vol. 52, Part 2, 455–466 (1991)
28. Manifolds whose tangent bundles are numerically effective (mit F. Campana). *Math. Ann.* 289, 169–187 (1991)
29. On the second exterior power of tangent bundles of threefolds (mit F. Campana). *Comp. Math.* 83, 329–346 (1992)
30. Numerically effective vector bundles with small Chern classes (mit M. Szurek, J. Wisniewski). *Proceedings Algebraische Geometrie, Springer Lectures Notes* 1507, 1992, 145–156
31. Hodge-Kohomologie und Steinsche Mannigfaltigkeiten. In: *Complex Analysis, vol. in honour of H. Grauert, Aspects of Math.*, (Ed.: K. Diederich) 237–246. Vieweg 1991
32. Tangent bundles, rational curves and manifolds of negative Kodaira dimension. In: *Complex Analysis and Geometry*, 293–310. Plenum 1993
33. 4-folds with numerically effective tangent bundles (mit F. Campana). *manuscr. math.* 79, 225–238 (1993)
34. Fano manifolds and vector bundles (mit M. Szurek, J. Wisniewski). *Math. Ann.* 294, 151–165 (1992)
35. Compact complex manifolds with numerically effective tangent bundles (mit J. P. Demailly, M. Schneider). *J. Alg. Geom.* 3, 295–345 (1994)

36. Kähler manifolds with numerically effective Ricci class (mit J. P. Demailly, M. Schneider). *Comp. math.* 85, 217–240 (1993)
37. Fano bundles and splitting theorems on projective spaces and quadrics (mit V. Ancona, J. Wisniewski). *Pacific Journal of Math.* 163, 17–42 (1994)
38. Rigidity theorems for primitive Fano 3-folds (mit F. Campana). *Comm. in Anal. and Geom.* 2, 173–201 (1994)
39. Sheaf-theoretical methods in complex analysis (mit H. Grauert, R. Remmert). *Encyclopaedia mathematica* 74, Springer 1994 (Buch)
40. Minimal varieties with trivial canonical classes I. *Math. Z.* 217, 377–407 (1994)
41. On the stability of tangent bundles of Fano manifolds (mit J. Wisniewski). *J. Alg. Geom.* 4, 363–384 (1995)
42. Holomorphic line bundles with partially vanishing cohomology (mit J. P. Demailly, M. Schneider). *Israel Math. Conf. Proc.* vol. 9, 165–198 (1996) (volume in honour of F. Hirzebruch)
43. Semipositivity and cotangent bundles (mit K. Oguiso). In: *Complex Analysis and Geometry*, 349–368; *Lecture Notes in Pure and Appl. Math.* 173. M. Dekker 1996
44. On polarized canonical Calabi-Yau threefolds (mit K. Oguiso). *Math. Ann.* 301, 237–248 (1995)
45. Neuere Entwicklungen in der Komplexen Geometrie (mit M. Schneider), in: *Festband zum 50jährigen Bestehen des Mathematischen Forschungs-institutes Oberwolfach*, Springer 1995
46. Towards a Mori theory on compact Kähler threefolds, I. (mit F. Campana). *Math. Nachr.* 187, 29–59 (1997)
47. Compact Kähler manifolds with hermitian semipositive anticanonical bundles (mit J. P. Demailly, M. Schneider) *Comp. math.* 101, 217–224 (1996)
48. Manifolds of semipositive curvature. *CIME Lectures Notes, Lecture Notes in Math.* 1646, 98–142 (1996)
49. Threefolds with extremal Chern classes (mit P. M. H. Wilson). In: *Higher Dimensional Complex Varieties*, p. 357–378. de Gruyter 1996
50. The algebraic dimension of compact complex threefolds with vanishing second Betti number (mit F. Campana und J. P. Demailly). *Comp. math.* 112, 77–91 (1998)
51. On Calabi-Yau threefolds with positive second Chern class (mit K. Oguiso). *Comm. Anal. Geom.* 6, 153–172 (1998)
52. Moishezon manifolds and rigidity problems. *Bayreuther Math. Schr.* 54, 1–108 (1998)

53. On the limits of manifolds with nef canonical bundles (mit M. Andreatta). *Complex Analysis and Geometry*, Pitman Research Notes in Math. 366, 1-6, ed. V.Ancona, E.Ballico, R.Miro-Roig, A.Silva. Longman 1997
54. Rational curves and ampleness properties of the tangent bundle of algebraic varieties (mit F. Campana). *manuscr. math.* 97, 59-74 (1998)
55. Towards a Mori theory on compact Kähler threefolds, II. *Math. Ann.* 311, 729-764 (1998)
56. An elementary introduction to classification theory of higher dimensional varieties (mit Y. Miyaoka). *DMV Seminar vol. 20*, Birkhäuser 1997 (Buch)
57. Recent developments in the classification theory of compact Kähler manifolds (mit F. Campana). *Several Complex Variables*, MSRI Research Publications, p.113-160, Cambridge Univ. Press 2000; ed. M.Schneider, Y.T. Siu
58. Threefolds with nef anticanonical bundles (mit F. Serrano). *Collectanea Mathematica* 49, 465-517 (1998)
59. Kodaira dimension of subvarieties (mit M. Schneider, A. J. Sommese). *Intl. Journal of Math.* 10, 1065-1079 (1999)
60. Holomorphic 2-forms on complex threefolds (mit F. Campana). *J. Alg. Geom.* 9, 223-264 (2000)
61. Towards a Mori theory on compact Kähler threefolds, III. *Bull.Soc. Math. France* 129, 339-356 (2001)
62. The Kodaira dimension of Kummer threefolds (mit F.Campana). *Bull. Soc. Math. France* 129, 357-359 (2001)
63. On the Albanese maps of compact Kähler manifolds with nef anticanonical bundles (mit F. Campana, Q.Zhang). Preprint 2000
64. Group actions on S^6 and complex structures on \mathbf{P}_3 (mit A.T. Huckleberry, S. Kebekus). *Duke Math. J.* 102, 101-124 (2000)
65. Complex projective contact manifolds (mit S.Kebekus, A.J.Sommese und J.Wisniewski). *Inv. Math.* 142, 1-15 (2000)
66. The scientific work of Michael Schneider. In: *Complex analysis and algebraic geometry; Band zu Ehren von Michael Schneider*, ed. T.Peternell, F.O.Schreyer, p. 375-388. de Gruyter 2000
67. Ample vector bundles and branched coverings (mit A.J.Sommese). *Comm. in Algebra* 28(12), 5573-5599 (2000) (special volume in honour of R.Hartshorne)
68. Projectivity via the dual Kähler cone - Huybrechts' criterion (mit K.Oguiso). *Asian J. Math.* 4, 213-220 (2000) (volume in honour of K.Kodaira)

69. Contact structures, rational curves and Mori theory. Proceedings 3rd European Congress of Mathematics Barcelona 2000. Progress in Math. vol. 201, 509-518, Birkhäuser 2001
70. Subsheaves in the tangent bundle: integrability, stability and positivity. Lecture Notes Summer School “Vanishing Theorems and effective results in Algebraic Geometry”, ICTP Trieste 2000, (2002)
71. Pseudo-effective line bundles on compact Kähler manifolds (mit J.P. Demailly, M.Schneider). Intl.J.Math. 12, 689-741 (2001)
72. Manifolds with nef subsheaves in the cotangent bundle (mit S.Kebekus, A.Sommese). In Festband zu Ehren von H.Grauert, 157-164. Springer 2002
73. Manifolds with splitting tangent bundles,I (mit F.Campana). Math.Z. 241, 613-637 (2002)
74. Compact Kähler threefolds with small Picard numbers. In: Applications of algebraic geometry to coding theory, physics and computation, ed. C.Ciliberto et al., 271-290. Kluwer 2001
75. A reduction map for nef line bundles. (with T.Bauer, F.Campana et al.) In Festband zu Ehren von H.Grauert; 27-36. Springer 2002
76. The dual Kähler cone of a compact Kähler threefold (mit K.Oguiso). Commun. Anal. Geom. 12, 1131-1154 (2004).
77. Generalized Tsen theorem and rationally connected fibrations (mit F.Campana, A.Pukhlikov). Mat. Sb. 19, 49-74 (2002)
78. Ample vector bundles and branched coverings II (mit A.J.Sommese). The Fano conference. Papers of the conference organized to commemorate the 50th anniversary of the death of Gino Fano (1871-1952), Torino, Italy, September 29-October 5, 2002. Torino: Universit di Torino, Dipartimento di Matematica. 625-645 (2004).
79. A Kawamata-Viehweg vanishing theorem on compact Kähler manifolds (mit J.P.Demailly). J. Differential Geometry 63, 231-277 (2003)
80. Line bundles on complex tori and a conjecture of Kodaira (mit J.P.Demailly, T.Eckl). Comment. Math. Helv. 80, 229-242 (2005).
81. Nef reduction and the structure of threefolds with nef anticanonical bundles (mit T.Bauer). Asian J. Math. 8, No.2, 315-352 (2004).
82. Holomorphic maps onto varieties of non-negative Kodaira dimension (mit J.M.Hwang und S.Kebekus). J. Algebraic Geom. 15 (2006), no. 3, 551–561.
83. Threefolds with big and nef anticanonical bundles I (mit P.Jahnke, I.Radloff). Math. Ann. 333, No.3, 569-631 (2005).
84. Kodaira dimension of subvarieties II. Internat. J. Math. 17 (2006), no. 5, 619–631.

85. Several Complex Variables: Basic Geometry Theory (mit A. Huckleberry). In: Encyclopedia of Math. Physics, 540–550; Elsevier 2006
86. Several Complex Variables: Compact Manifolds (mit A. Huckleberry). In: Encyclopedia of Math. Physics, 551–559; Elsevier 2006
87. Some recent developments in the classification theory of higher dimensional manifolds (mit P.Jahnke, I.Radloff). Global aspects of complex geometry, 311–357, Springer, Berlin, 2006.
88. Holomorphic maps onto Kähler manifolds with non-negative Kodaira dimension (mit J.M. Hwang). J. Korean Math. Soc. 44 (2007), 1079–1092.
89. Strictly nef divisors (mit F.Campana, J.Chen). Math. Ann. 208 (2008), 565–585.
90. A refinement of Stein factorization and deformations of surjective morphisms (mit S.Kebekus). Asian J. Math. 12 (2008), no. 3, 365–389.
91. The pseudo-effective cone of a compact Kähler manifold and varieties of negative Kodaira dimension (mit S.Boucksom, J.P.Demailly und M.Paun). J. Alg. Geom. 22 (2013), 201–248
92. Almost del Pezzo manifolds (mit P.Jahnke). Adv. Geom. 8 (2008), no. 3, 387–411.
93. Galois coverings and projective varieties (mit M. Aprodu, S.Kebekus). Math. Z. 260 (2008), no. 2, 431–449.
94. Compact Manifolds Covered by a Torus (mit J.P.Demailly, J.M Hwang). J. Geom. Anal. 18 (2008), no. 2, 324–340.
95. Endomorphisms of projective varieties (mit M. Aprodu, S. Kebekus). arXiv:0705.4602, extended version of no.92.
96. Finite morphisms of projective and Kähler manifolds. Sci. China Ser. A 51 (2008), no. 4, 685–694.
97. Submanifolds with ample normal bundles and a conjecture of Hartshorne. Contemp. Math. 496, 317–330 (2009)
98. Henri Cartan, ein französischer Freund (mit K.Hulek). Jahresber. Deutsch. Math.-Verein. 111 (2009), no. 2, 85–94.
99. On volume preserving complex structures on real tori (mit F.Catanese, K.Oguiso). Kyoto J. Math. 50 (2010), no. 4, 753–775.
100. Non-algebraic hyperkähler manifolds (mit F.Campana, K.Oguiso). J. Differential Geom. 85 (2010), no. 3, 397–424.
101. Geometric stability of the cotangent bundle and the universal cover of projective manifolds (mit F.Campana). Bull. Soc. Math. France 139 (2011), no. 1.
102. Threefolds with big and nef anticanonical bundles II (mit P.Jahnke, I.Radloff). Cent. Eur. J. Math. 9 (2011), no. 3, 449–488.

103. On the Bimeromorphic Geometry of Compact Complex Contact Threefolds (mit K.Frantzen). *Classification of algebraic varieties*, 277288, EMS Ser. Congr. Rep., Eur. Math. Soc., Zürich, 2011.
104. Differential Forms on Log Canonical Spaces (mit D.Greb, S.Kebekus, S.Kovacs). *Pub. Math. IHES* 114, 87–169 (2011)
105. Varieties with generically nef tangent bundles. *J. Europ. Math. Soc.* 14 (2012), 571–603
106. Uniformisation in dimension four: towards a conjecture of Iitaka (mit A.Höring, I.Radloff). *Math. Z.* 274, 483–497 (2013)
107. Generically nef vector bundles and geometric applications. In: *Complex and differential geometry*. Springer Proc. in Math. vol. 8, ed. W.Ebeling, K.Hulek, K.Smoczyk, (2011), 345–368.
108. Non-algebraic compact Kähler threefolds admitting endomorphisms (mit A.Höring). *Sci. China* 54 (2011), 1635–1664.
109. Compact subvarieties with ample normal bundles, algebraicity and cones of cycles. *Michigan Math. J.* 61 (2012), 875–889
110. Singular spaces with trivial canonical class (mit D.Greb, S.Kebekus). In: *Minimal Models and Extremal Rays* (Kyoto, 2011), *Advanced Stud. in Pure Math.* 70, ed. J. Kollár, O. Fujino, S. Mukai and N. Nakayama, 67–114
111. Contact Moishezon threefolds with second Betti number one (mit J.Buczynski). *Arch. d. Math.* 98 (2012), 427–431
112. Reflexive differential forms on singular spaces – Geometry and Cohomology (mit D.Greb, S.Kebekus). *J. Reine Angew. Math.* 697 (2014), 57–89.
113. On the cone conjecture for Calabi-Yau manifolds with Picard number two (mit V. Lazic). *Math. Res. Letters* 20 (2013), no.6, 1103–1113
114. Rationally connected manifolds and semi positivity of the Ricci curvature (mit F.Campana, J.P.Demailly). *Recent advances in algebraic geometry*, 7191, London Math. Soc. Lecture Note Ser., 417, Cambridge Univ. Press, Cambridge, 2015.
115. Contact Kähler manifolds: symmetries and deformations (mit F.Schrack), *Algebraic and complex geometry*, 285308, Springer Proc. Math. Stat., 71, Springer, Cham, 2014.
116. Etale fundamental groups of Kawamata log terminal spaces, flat sheaves, and quotients of Abelian varieties. *Duke Math. J.* 165 (2016), no. 10, 1965–2004
117. Minimal models for Kähler threefolds (mit A.Höring). *Invent. Math.* 203 (2016), no. 1, 217–264.
118. Mori fiber spaces for Kähler threefolds (mit A. Höring). *J. Math. Sci. Univ. Tokyo* 22 (2015), 219–246, volume in commemoration of Professor Kunihiko Kodaira’s centennial birthday

119. Automorphisms of Calabi-Yau threefolds with Picard number three (mit V.Lazic, K.Oguiso). In: Higher dimensional algebraic geometry in honour of Professor Yujiro Kawamata's sixtieth birthday, 279290, Adv. Stud. Pure Math., 74, Math. Soc. Japan, Tokyo, 2017.
120. Aspects of the geometry of varieties with canonical singularities (mit S. Kebekus). In "Foliation Theory in Algebraic Geometry", ed. P.Cascini. J.McKernan, J.V.Pereira, 73–102. Springer 2016
121. Abundance for Kähler threefolds (mit F.Campana, A. Höring). Ann. Sci. Ec. Norm. Sup. 49 (2016), 969–1023
122. Movable curves and semistable sheaves (mit D.Greb, S.Kebekus). International Math. Res. Notices vol. 2016, no.2, 535–570
123. The Miyaoka-Yau inequality and uniformisation of canonical models (mit D. Greb, S.Kebekus, B.Taji), arXiv:1511.08822. To appear in Ann. Sci. Ec. Norm. Sup.
124. Nef line bundles on Calabi-Yau threefolds, I (mit V.Lazic, K.Oguiso), Int. Math. Res. Notices. (2018), doi: 10.1093/imrn/rny191
125. Abundance for varieties with many differential forms (mit V.Lazic) (mit V.Lazic), Epjjournal de Geom. Alg. 2 (2018), article 1
126. Bimeromorphic geometry of Kähler manifolds (mit A. Höring). In: Algebraic geometry: Salt Lake City 2015, 381402, Proc. Sympos. Pure Math., 97.1, Amer. Math. Soc., Providence, RI, 2018.
127. The Morrison-Kawamata cone conjecture and abundance for Ricci flat manifolds (mit V.Lazic, K.Oguiso). In: Uniformization, Riemann-Hilbert correspondence, Calabi-Yau manifolds and Picard-Fuchs equations, Advanced lectures in Math., vol. 42, 157–187, Int. Press, 2018
128. Rationally connected varieties - on a conjecture of Mumford (mit V.Lazic). Sci. China Math. 60 (2017), no. 6, 1019-1028
129. On the homeomorphism type of smooth projective fourfolds (mit K.Oguiso), arXiv:1707.05657, to appear in Acta Mathematica Vietnamica, special volume in memory of Le van Thiem
130. Algebraic integrability of foliations with numerically trivial canonical bundle (mit A. Höring), arXiv:1710.06183, Inv. Math. 216 (2019), 395–419
131. Nonabelian Hodge Theory for klt spaces and descent theorems for vector bundles (mit D.Greb, S.Kebekus, B.Taji), arXiv:1711.08159, to appear in Compositio Math.
132. Harmonic metrics on Higgs sheaves and uniformization of varieties of general type (mit D.Greb, S.Kebekus, B.Taji), arXiv:1804.01266, to appear in Math. Ann.
133. On generalised abundance, I (mit V.Lazic), arXiv:1808.00438, to appear in Publ. RIMS

134. Maps from K-trivial varieties and connectedness problems (mit V.Lazic), arXiv:1808.01115, to appear in Annales Henri Lebesgue
135. On generalised abundance, II (mit V.Lazic), arXiv:1809.02500
136. The algebraic dimension of compact complex threefolds with vanishing second Betti numbers (mit F. Campana, J.-P.Demailly), arXiv:1904.11179
137. Jean-Pierre: some personal reminiscences, Ann. Inst. Fourier, Grenoble, 68(7) (2018), 2779-2781