

Publications

Yuri Tschinkel

Books edited

1. “Rational points on algebraic varieties” (with E. Peyre), *Progress in Mathematics* **199**, Birkhäuser, (2001)
2. “Arithmetic of higher-dimensional algebraic varieties” (with B. Poonen), *Progress in Mathematics* **226**, Birkhäuser, (2003)
3. Mathematisches Institut, Seminars 2003/04, Universitätsverlag Göttingen, (2004)
4. “Geometric methods in algebra and number theory”, (with F. Bogomolov), *Progress in Mathematics* **235**, Birkhäuser, (2004)
5. Mathematisches Institut, Seminars 2004, Universitätsverlag Göttingen, (2004)
6. Mathematisches Institut, Seminars 2004/05, Universitätsverlag Göttingen, (2005)
7. Proceedings Gauss-Dirichlet conference (with W. Duke), Clay Mathematics Institute Proceedings series, AMS (2007)
8. “Algebraic groups”, Proceedings of a Summer school in Göttingen, Universitätsverlag Göttingen, (2007)
9. “Eisenstein series and applications”, (with W.T. Gan and S. Kudla), *Progress in Mathematics* **258**, Birkhäuser, (2008)
10. Mathematisches Institut, Trends in mathematics, Courant Colloquium Göttingen, (with R. Meyer and Th. Schick), Universitätsverlag Göttingen, (2008)
11. “Algebra, Geometry and Arithmetic - Manin Festschrift”, (with Y. Zarhin), *Progress in Mathematics*, **269, 270**, Birkhäuser, (2009)
12. “Arithmetic geometry”, (with H. Darmon and B. Hassett), Clay Mathematics Institute Proceedings series, AMS (2009)

13. “Higher-dimensional geometry over finite fields”, (with D. Kaledin), Advanced Study Institute, IOS Press, (2008)
14. “Cohomological and geometric approaches to rationality problems”, (with F. Bogomolov), *Progress in Mathematics*, **282**, Birkhäuser, (2009)
15. “Birational geometry, rational curves, and arithmetic”, (with F. Bogomolov and B. Hassett), Springer Verlag, (2013)
16. “Rational points, rational curves and entire holomorphic curves on projective varieties”, (with C. Gasbarri, S.S.-Y. Lu, and M. Roth), *Contemporary Math.* **654**, AMS, (2015)
17. “Kontsevich Festschrift”, (with D. Auroux, L. Katzarkov, T. Pantev, and Y. Soibelman), *Progress in Mathematics*, **324**, Birkhäuser, (2017)
18. “Geometry over nonclosed fields - Simons Symposium 2015”, (with F. Bogomolov and B. Hassett), Springer Verlag, (2017)
19. Martin Kneser Collected Works, (with Ulf Rehmann), Springer Verlag, (2021)
20. Manin Memorial, to appear in Springer Verlag, (2024)

Film

- Executive producer of the documentary “Colors of Math” (60 min.), June 2012

Research papers

1. Rational points of bounded height on Fano varieties (with J. Franke, Yu. I. Manin), *Inventiones Math.* **95**, 421–435, (1989)
2. Rational points of bounded height on Del Pezzo surfaces, (with Yu. I. Manin), *Compositio Math.* **85(3)**, 315–332, (1993)
3. Rational points of bounded height on compactifications of anisotropic tori, (with V. Batyrev), *Intern. Math. Research Notices* **12**, 591–635, (1995)
4. Height zeta functions of toric varieties, (with V. Batyrev), Algebraic geometry, 5, (Manin’s Festschrift), *Journ. Math. Sci.* **82**, no. 1, 3220–3239, (1996)
5. Rational points on some Fano cubic bundles, (with V. Batyrev), *C. R. Acad. Sci. Paris* **323**, Ser. I, 41–46, (1996)
6. Height zeta functions of twisted products, (with M. Strauch), *Math. Res. Letters* **4**, 273–282, (1997)
7. Manin’s conjecture for toric varieties, (with V. Batyrev), *Journ. of Alg. Geom.* **7**, no. 1, 15–53, (1998)
8. Tamagawa numbers of polarized algebraic varieties, (with V. Batyrev), *Astérisque* **251**, 299–340, (1998)
9. Density of rational points on Enriques surfaces, (with F. Bogomolov), *Math. Res. Letters* **5**, 623–628, (1998)
10. Height zeta functions of toric bundles over flag varieties, (with M. Strauch), *Selecta Math. (N.S.)* **5**, no. 3, 325–396, (1999)
11. On the density of rational points on elliptic fibrations, (with F. Bogomolov), *Journ. Reine und Angew. Mathematik* **511**, 87–93, (1999)
12. Geometry of equivariant compactifications of \mathbf{G}_a^n , (with B. Hassett), *Intern. Math. Research Notices* **22**, 1211–1230, (1999)
13. Rational points on quartics, (with J. Harris), *Duke Math. Journ.* **104**, no. 3, 477–500, (2000)

14. Points of bounded height on equivariant compactifications of vector groups I, (with A. Chambert-Loir), *Compositio Math.* **124**(1), 65–93, (2000)
15. Points of bounded height on equivariant compactifications of vector groups II, (with A. Chambert-Loir), *Journ. of Number Theory* **85**, no. 2, 172–188, (2000)
16. Abelian fibrations and rational points on symmetric products, (with B. Hassett), *Intern. Journ. of Math.* **11**, no. 9, 1163–1176, (2000)
17. Lagrangian subvarieties of abelian fourfolds, (with F. Bogomolov), *Asian Journ. of Math.* **4**, no. 1, 19–36, (2000)
18. Tamagawa numbers of diagonal cubic surfaces, (with E. Peyre), *Math. Comp.* **70**, 367–387, (2001)
19. Torseurs arithmetiques et espaces fibres, (with A. Chambert-Loir), “*Rational points on algebraic varieties*”, *Progress in Mathematics* **199**, 37–70, (2001)
20. Fonctions zêta des hauteurs des espaces fibrés, (with A. Chambert-Loir), “*Rational points on algebraic varieties*”, *Progress in Mathematics* **199**, 71–116, (2001)
21. Density of integral points on algebraic varieties, (with B. Hassett), “*Rational points on algebraic varieties*”, *Progress in Mathematics* **199**, 169–198, (2001)
22. Tamagawa numbers of diagonal cubic surfaces of higher rank, (with E. Peyre), “*Rational points on algebraic varieties*”, *Progress in Mathematics* **199**, 275–306, (2001)
23. Rational curves on holomorphic symplectic fourfolds, (with B. Hassett), *Geom. and Funct. Analysis* **11**, no. 6, 1201–1228, (2001)
24. On the distribution of points of bounded height on equivariant compactifications of vector groups, (with A. Chambert-Loir), *Inventiones Math.* **148**, no. 2, 421–452, (2002)
25. Commuting elements in Galois groups of function fields, (with F. Bogomolov), “*Motives, polylogarithms and Hodge theory*”, 75–120, International Press, (2002)
26. Rationality of moduli of elliptic fibrations with fixed monodromy, (with F. Bogomolov and T. Petrov), *Geom. and Funct. Analysis* **12**(6), 1105–1160, (2002)

27. On the effective cone of the moduli space of pointed rational curves, (with B. Hassett), *Topology and Geometry*, Contemporary Math. **314**, 83–96, (2002)
28. Unramified correspondences, (with F. Bogomolov), *Algebraic Number Theory and Algebraic Geometry*, Contemporary Math. **300**, 17–26, (2002)
29. Integral points on punctured abelian surfaces, (with A. Kresch), “*Algorithmic number theory*”, *Proceedings of ANTS V*, 198–204, LNCS **2369**, Springer, (2002)
30. Monodromy of elliptic surfaces, (with F. Bogomolov), “*Galois groups and fundamental groups*”, (L. Schneps ed.), MSRI Publications **41**, Cambridge Univ. Press, (2003)
31. Simple examples of symplectic four-manifolds with exotic properties, (with F. Bogomolov), *Acta Appl. Math.* **75**, no. 1-3, 25–28, (2003)
32. Integral points and effective cones of moduli spaces of stable maps, (with B. Hassett), *Duke Math. Journ.* **120**, no. 3, 577–599, (2003)
33. Universal torsors and Cox rings, (with B. Hassett), “*Arithmetic of higher-dimensional algebraic varieties*”, *Progress in Mathematics* **226**, 149–173, (2003)
34. Rational points on compactifications of semi-simple groups of rank 1, (with J. Shalika and R. Takloo-Bighash), “*Arithmetic of higher-dimensional algebraic varieties*”, *Progress in Mathematics* **226**, 205–233, (2003)
35. Rational points and automorphic forms, (with J. Shalika and R. Takloo-Bighash), “*Contributions to Automorphic Forms, Geometry, and Number Theory*”, (H. Hida, D. Ramakrishnan, F. Shahidi eds.), 733–742, Johns Hopkins University Press, (2004)
36. Height zeta functions of equivariant compactifications of the Heisenberg group, (with J. Shalika), “*Contributions to Automorphic Forms, Geometry, and Number Theory*”, (H. Hida, D. Ramakrishnan, F. Shahidi eds.), 743–771, Johns Hopkins University Press, (2004)
37. On the arithmetic of Del Pezzo surfaces of degree 2, (with A. Kresch), *Proc. Lond. Math. Soc.* (3) **89**, 545–569, (2004)
38. Special elliptic fibrations, (with F. Bogomolov), *Proceedings of the Fano Conference*, (A. Collino, A. Conte, M. Marchisio, eds.), 223–234, (2004)

39. Reconstruction of function fields, (with F. Bogomolov), *GAF* **18**, no. 2, 400–462, (2008)
40. Couniformization of curves over number fields, (with F. Bogomolov), “*Geometric methods in algebra and number theory*”, *Progress in Mathematics* **235**, 43–57, (2004)
41. Curves in abelian varieties over finite fields, (with F. Bogomolov), *Intern. Math. Research Notices* **4**, 233–238, (2005)
42. Rational curves and algebraic points on K3 surfaces, (with F. Bogomolov), *Amer. Journ. of Math.* **127**, no. 4, 825–835, (2005)
43. Weak approximation over function fields, (with B. Hassett), *Inventiones Math.* **163**, no. 1, 171–190, (2006)
44. Approximation at places of bad reduction for rationally connected varieties, (with B. Hassett), *Pure and Applied Math. Quarterly* **4**, no. 3, 1–24, (2008)
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46. Algebraic varieties over small fields, (with F. Bogomolov), *Proc. Special Semester on Diophantine Geometry, Pisa*, 53–71, (2007)
47. Universal torsors over Del Pezzo surfaces and rational points, (with U. Derenthal), “*Equidistribution in Number theory, An Introduction*”, (A. Granville, Z. Rudnick eds.), 169–196, NATO Science Series II, **237**, Springer, (2007)
48. Rational points on compactifications of semi-simple groups, (with J. Shalika and R. Takloo-Bighash), *Journ. of the AMS* **20**, 1135–1186, (2007)
49. Weak approximation for hypersurfaces of low degree, (with B. Hassett), *Proceedings Symp. Pure Math. AMS* **80** (2), 937–955, (2009)
50. Log Fano varieties over function fields of curves, (with B. Hassett), *Inventiones Math.* **171**, no. 1., 7–21, (2008)
51. Effectivity of Brauer-Manin obstructions, (with A. Kresch), *Advances in Math.* **218**, no. 1., 1–27, (2008)

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53. Moving and ample cones of holomorphic symplectic fourfolds, (with B. Hassett), *GAF* **19**, no. 4, 1065–1080, (2009)
54. A Torelli theorem for curves over finite fields, (with F. Bogomolov and M. Korotiaev), *Pure and Applied Math Quarterly, Tate Festschrift*, **6**, no. 1, 245–294, (2010)
55. Flops on holomorphic symplectic fourfolds and determinantal cubic hypersurfaces, (with B. Hassett), *Journ. Inst. Math. Jussieu* **6**, no. 1, 125–153, (2010)
56. On a theorem of Tate, (with F. Bogomolov), *CEJM* **6**, no. 3, 343–350, (2008)
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58. Milnor K_2 and field homomorphisms, (with F. Bogomolov), *Surveys in Differential Geometry XIII*, 223–244, (2009)
59. Co-fibered products of algebraic curves, (with F. Bogomolov), *CEJM* **7**, no. 3, 382–386, (2009)
60. Igusa integrals and volume asymptotics in analytic and adelic geometry, (with A. Chambert-Loir), *Confluentes Mathematici* **2**, no. 3, 351–429, (2010)
61. Constructing rational curves on K3 surfaces, (with F. Bogomolov and B. Hassett), *Duke Math. Journ.* **157**, no. 3, 535–550, (2011)
62. Intersection numbers of extremal rays on holomorphic symplectic varieties, (with B. Hassett), *Asian Journ. of Math.* **14**, no. 3, 303–322, (2010)
63. Effectivity of Brauer-Manin obstructions on surfaces, (with A. Kresch), *Advances in Math.* **226**, 4131–4144, (2011)
64. Monodromy and rational curves on holomorphic symplectic varieties, (with B. Hassett), 9 pp., (2009)
65. Integral points of bounded height on partial equivariant compactifications of vector groups, (with A. Chambert-Loir), *Duke Math. Journ.* **161**, no. 15, 2799–2836, (2012)

66. Reconstruction of higher-dimensional function fields, (with F. Bogomolov), *Moscow Math. Journal* **11**, no. 2, 185–204, (2011)
67. Hodge theory and Lagrangian planes on generalized Kummer fourfolds, (with B. Hassett), *Moscow Math. Journ.* **13**, no. 1, 33–56, (2013)
68. Integral points of bounded height on toric varieties, (with A. Chambert-Loir), 28 pp., (2010)
69. Introduction to birational anabelian geometry, (with F. Bogomolov), in *Current Developments in Algebraic Geometry*, (L. Caporaso, J. McKernan, M. Mustata, M. Popa eds.), MSRI Publications **59**, Cambridge Univ. Press, 17–63, (2012)
70. Characterizing projective spaces on deformations of Hilbert schemes of K3 surfaces, (with D. Harvey and B. Hassett), *Comm. Pure and Applied Math.*, **65**, no. 2, 264–286, (2012)
71. Height zeta functions of equivariant compactifications of semi-direct products of algebraic groups, (with S. Tanimoto), *Contemporary Math.* **566**, 119–157, (2012)
72. Integral points of bounded height on compactifications of semi-simple groups, (with R. Takloo-Bighash), *Amer. Journ. of Math.* **135**, no. 5, 1433–1448, (2013)
73. Spaces of sections of quadric surface fibrations over curves, (with B. Hassett), *Contemporary Math.* **564**, 227–249, (2012)
74. Multiple mixing for adèle groups and rational points, (with A. Gorodnik, R. Takloo-Bighash), *Europ. Journ. of Math.* 1(3), 441–461, (2015)
75. Galois theory and projective geometry, (with F. Bogomolov), *Comm. Pure. and Applied Math.* **66**, no. 9, 1335–1359, (2013)
76. Effective computation of Picard groups and Brauer-Manin obstructions of degree two K3 surfaces over number fields, (with B. Hassett and A. Kresch), *Rendiconti del Circolo Matematico di Palermo* **62**, 137–151, (2013)
77. Embedding pointed curves in K3 surfaces, (with B. Hassett), *Math. Zeitschrift* **278**, no. 3-4, 927–953, (2014)

78. Quartic Del Pezzo surfaces over function fields of curves, (with B. Hassett), *CEJM* **12(3)**, 395–420, (2014)
79. Balanced line bundles and equivariant compactifications of homogeneous spaces, (with B. Hassett and S. Tanimoto), *Intern. Math. Research Notices* **2015**, 6375–6410, (2015)
80. Mori cones of holomorphic symplectic varieties of K3 type, (with A. Bayer and B. Hassett), *Ann. Sci. ENS* (4) **48**, no. 4, 941–950, (2015)
81. On the moduli space of degree 4 Del Pezzo surfaces, (with B. Hassett and A. Kresch), *Development of Moduli Theory (Mukai Festschrift)*, Advanced Studies in Pure Math. **69**, 349–386, (2016)
82. Universal spaces for unramified Galois cohomology, (with F. Bogomolov), *Brauer groups and obstruction problems: moduli spaces and arithmetic*, (A. Auel, B. Hassett, A. Várilly-Alvarado, and B. Viray eds.), Progress in Math. **320**, Birkhäuser, 57–86, (2016)
83. Height zeta functions of equivariant compactifications of unipotent groups, (with J. Shalika), *Comm. Pure and Applied Math.* **69**, no. 4, 693–733, (2016)
84. Variation of Neron-Severi ranks of reductions of K3 surfaces, (with E. Costa), *Exp. Math.* **23**, no. 4, 475–481, (2014)
85. Rational points on K3 surfaces and derived equivalence, (with B. Hassett), *Brauer groups and obstruction problems: moduli spaces and arithmetic*, (A. Auel, B. Hassett, A. Várilly-Alvarado, and B. Viray eds.), Progress in Math. **320**, Birkhäuser, 87–113, (2017)
86. Balanced line bundles on Fano varieties, (with B. Lehmann and S. Tanimoto), *Journ. Reine und Angew. Math.* **743**, 91–131, (2018)
87. Stable rationality and conic bundles, (with B. Hassett and A. Kresch), *Math. Annalen* **365(3)**, 1201–1217, (2016)
88. Extremal rays and automorphisms of holomorphic symplectic varieties, (with B. Hassett), *K3 surfaces and their moduli*, (G. Farkas and G. van der Geer, eds.), *Progress in Mathematics* **315**, 73–95, (2016)

89. On stable rationality of Fano threefolds and Del Pezzo fibrations, (with B. Hassett), *Journ. Reine und Angew. Math.* **751**, 275–287, (2019)
90. Stable rationality of quadric surface bundles over surfaces, (with B. Hassett and A. Pirutka), *Acta Mathematica* **220**, 341–365, (2018)
91. A very general quartic double fourfold is not stably rational, (with B. Hassett and A. Pirutka), *Algebraic Geometry* **6(1)**, 64–75, (2019)
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94. Intersections of three quadrics in \mathbf{P}^7 , (with B. Hassett and A. Pirutka), *Surveys in Differential Geometry* **22(1)**, 259–274, (2017)
95. Homomorphisms of multiplicative groups of fields preserving algebraic dependence, (with F. Bogomolov and M. Rovinsky), *Europ. Journ. of Math.* **5(3)**, 656–685, (2019)
96. Models of Brauer-Severi surface bundles, (with A. Kresch), *Moscow Math. Journal* **19**, no. 3, 549–595, (2019)
97. Specialization of birational types, (with M. Kontsevich), *Inventiones Math.* **217(2)**, 415–432, (2019)
98. Stable rationality of Brauer-Severi surface bundles, (with A. Kresch), *Manuscripta Math.* **161(1)**, 1–14, (2020)
99. Noether’s problem and descent, (with F. Bogomolov), *ICCM Notices* **6(2)**, 25–31, (2018)
100. Stable rationality in smooth families of threefolds, (with B. Hassett and A. Kresch), *Duke Math. J.* **172** no. 6, 1145–1172, (2023)
101. Involution surface bundles over surfaces, (with A. Kresch), *Math. Zeitschrift* **296**, no. 3-4, 1081–1100, (2020)

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103. Models of triple covers, (with A. Kresch), *Mat. Zametki* **105(5)**, 798–800, (2019)
104. Equivariant birational geometry and modular symbols, (with M. Kontsevich and V. Pestun), *J. Eur. Math. Soc. (JEMS)* **25**, no. 1, 153–202, (2023)
105. Rationality of complete intersections of two quadrics, (with B. Hassett), *Ens. Math.* **67**, no. 1-2, 1–44, (2021)
106. Varieties of planes on intersections of three quadrics, (with B. Hassett), 21 pp., *Europ. Journ. of Math.* **7**, no. 2, 613–632, (2021)
107. Fibrations in sextic del Pezzo surfaces with mild singularities, (with A. Kresch), *Rend. Semin. Mat. Univ. Padova* **148**, 65–82, (2022)
108. Cycle class maps and birational invariants, (with B. Hassett), *Comm. Pure and Applied Math.* **74**, no. 12, 2675–2698, (2021)
109. Birational types of algebraic orbifolds, (with A. Kresch), *Mat. Sbornik* **212**, no. 3, 54–67, (2021)
110. Rationality of Fano threefolds of degree 18 over nonclosed fields, (with B. Hassett), *Rationality of Varieties, Proceedings Schiermonnikoog*, Progress in Mathematics **342**, 237–247, (2021)
111. Equivariant birational types and Burnside volume, (with A. Kresch), *Annali della Scuola Normale Superiore di Pisa*, (5) **23**, no. 2, 1013–1052, (2022)
112. Symbols and equivariant birational geometry in small dimensions, (with B. Hassett and A. Kresch), *Rationality of Varieties, Proceedings Schiermonnikoog*, Progress in Mathematics **342**, 201–236, (2021)
113. Arithmetic properties of equivariant birational types, (with A. Kresch), *Research in Number Theory* **7(2)**, (2021)
114. Rationality of even-dimensional intersections of two real quadrics, (with B. Hassett and J. Kollár), *Comm. Math. Helvetici* **97**, no. 1, 183–207, (2022)

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116. Equivariant geometry of odd-dimensional complete intersections of two quadrics, (with B. Hassett), *Pure Appl. Math. Q.* **18**, no. 4, 1555–1597, (2022)
117. Equivariant Burnside groups and representation theory, (with A. Kresch), *Selecta Math. (N.S.)* **28**, no. 4, (2022)
118. Equivariant Burnside groups and toric varieties, (with A. Kresch), *Rendiconti del Circolo Matematico di Palermo*, (2) **72**, no. 5, 3013–3039, (2023)
119. Combinatorial Burnside groups, (with Kaiqi Yang and Zhijia Zhang), *Res. Number Theory* **8**, no. 2, (2022)
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122. Equivariant derived equivalence and rational points on K3 surfaces, (with B. Hassett), *Communications in Number Theory and Physics* **17**, no. 2, 293–312, (2023)
123. Burnside groups and orbifold invariants of birational maps, (with A. Kresch), 13 pp., to appear in *Collino Festschrift*, (2022)
124. Involutions on K3 surfaces and derived equivalence, (with B. Hassett), 21 pp., (2022)
125. Burnside rings and volume forms with logarithmic poles, (with A. Chambert-Loir and M. Kontsevich), 28 pp., (2023)
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129. Equivariant birational types and derived categories, (with Chr. Böhning and H.-Chr. Graf von Bothmer), 32 pp., to appear in *Mathematische Nachrichten*, (2023)
130. Birational geometry of Deligne-Mumford stacks, (with A. Kresch), 64 pp., (2023)
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135. Equivariant geometry of singular cubic threefolds, II, (with I. Cheltsov, L. Marquand, and Zh. Zhang), 51 pp., (2024)
136. Stable equivariant birationalities of cubic and degree 14 Fano threefolds, (with Zh. Zhang), 22 pp., (2024)
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2. Generalized Chatelet varieties, *Proceedings Conf. on Constructive Methods and Algorithms in Number Theory, Minsk, USSR*, 163, (1989)
3. Arithmetic of algebraic surfaces, Ph.D. Thesis, M.I.T., (1992)
4. Finite heights and rational points on surfaces, *Adv. in Number Theory (Kingston, ON, 1991)*, 319–329, Oxford Sci. Publ., Oxford Univ. Press, New York, (1993)
5. On rational points, *Proceedings Intern. Conf. Algebraic Geometry, Sendai*, 157-172, (1993)
6. Rational points on toric varieties, (with V. Batyrev), *Number theory (Halifax, NS, 1994)*, 39–48, CMS Conf. Proc., 15, AMS, Providence, RI, (1995)
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9. Resolution of singularities, (with F. Bogomolov), Review of a book by H. Hauser et al., *Bulletin AMS*, **39**, 95–100, (2002)
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11. On curve correspondences, (with F. Bogomolov), *Proceedings of “Communications in Arithmetic Fundamental Groups and Galois Theory”*, *RIMS*, 157-166, (2002)
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