

List of publications

Frans Oort

Updated 09 - IX - 201s

- [1] — *Reducible and multiple algebraic curves.* PhD-Thesis, Leiden, 1961.
- [2] — *Sur le schéma de Picard.* Bull. Soc. Math. France **90** (1962), 1 - 14.
- [3] — *A construction of generalized Jacobians by group extensions.* Math. Ann. **147** (1962), 277 - 286.
- [4] — *A note on rationality of divisor classes on algebraic schemata (separable case).* Math. Ann. **149** (1963), 67 - 70.
- [5] — *Hochschild extensions of algebraic rings.* Proceed. Kon. Nederl. Acad. Wetensch. **66** (1963), 76 - 84.
- [6] — *A note on natural maps of higher extension functors.* Proceed. Cambridge Phil. Soc. **59** (1963), 283 - 286.
- [7] — *Natural maps of extension functors.* Proceed. Kon. Nederl. Acad. Wetensch. **66** (1963), 559 - 566.
- [8] — *Yoneda extensions in abelian categories.* Math. Ann. **153** (1964), 227 - 235.
- [9] — *Commutative group schemes.* Lect. Notes Math. 15, Springer - Verlag 1966.
- [10] — *Algebraic group schemes in characteristic zero are reduced.* Invent. Math. **2** (1966), 79 - 80.

- [11] — *On the definition of an abelian category.* Proceed. Kon. Acad. Wetensch. **70** (1967), 83 - 92.
- [12] F. Oort & J. R. Strooker - *The category of finite bialgebras over a field.* Proceed. Kon. Acad. Wetensch. **70** (1967), 163 - 169.
- [13] H. Matsumura & F. Oort - *Representability of group functors and automorphisms of algebraic schemes.* Invent. Mat. **4** (1967), 1 - 25.
- [14] F. Oort & T. Oda - *Higher extensions of abelian varieties.* Nagoya Math. Journal **31** (1968), 81 - 88.
- [15] — *Embeddings of finite group schemes into abelian schemes.* Mimeogr. notes, AMS Summer School in Algebraic Geometry, Bowdoin College, 1967.
- [16] F. Oort & D. Mumford - *Deformations and liftings of finite, commutative group schemes.* Invent. Math. **5** (1968), 317 - 334.
- [17] — *Hensel's lemma and rational points over local rings.* Symposia Math. **3** (1970), 217 - 232.
- [18] J. Tate & F. Oort – *Group schemes of prime order.* Ann. Sc. Ecole Norm. Sup. **3** (1970), 1 - 21.
- [19] — *Finite group schemes, local moduli for abelian varieties and lifting problems.* Compos. Math. **23** (1971), 265 - 296. Also in: Algebraic geometry Oslo 1970 (F. Oort, editor). Wolters - Noordhoff 1972; pp. 223 - 254.
- [20] M. Hazewinkel & F. Oort - *On $\text{Ext}_k^i(N, \mathbb{G}_a)$ for finite group schemes N over not necessarily perfect base fields k .* Neth. Sch. Econ., Econ. Inst. Report 7213, May 1972; 19 pp.

- [21] M. Hazewinkel & F. Oort - *On $\mathrm{Ext}_k^i(\mathbb{G}_a, \mathbb{G}_a)$ for finite group schemes N over not necessarily perfect base fields k .* Neth. Sch. Econ., Econ. Inst. report 7214, June 1972; 19 pp.
- [22] — *Elliptic curves: diophantine torsion solutions and singular j -invariants.* Math. Ann. **207** (1974), 139 - 162.
- [pre-23] — *Good reduction of CM-type and stable reduction of abelian varieties.* Aarhus preprint series **31** (1972/73), 16 pp.
- [23] — *Good and stable reduction of abelian varieties.* Manuscr. Math. **11** (1974), 171 - 197.
- [24] — *The isogeny class of a CM-type abelian variety is defined over a finite extension of the prime field.* Journ. Pure Appl. Algebra **3** (1973), 399 - 408.
- [25] F. Oort & K. Ueno - *Principally polarized abelian varieties of dimension two or three are Jacobian varieties.* Journ. Fac. Sc. Univ. Tokyo, Sec. IA **20** (1973), 377–381.
- [26] — *Subvarieties of moduli spaces.* Invent. Math. **24** (1974), 95–119.
<http://www.springerlink.com/content/uw7vj317n06qk725/fulltext.pdf>
- [27] H. W. Lenstra jr & F. Oort – *Simple abelian varieties having a prescribed formal isogeny type.* Journ. Pure Appl. Algebra **4** (1974), 47 - 53.
- [28] — *Lifting an endomorphism of an elliptic curve to characteristic zero.* Proceed. Kon. Ned. Akad. Wetensch. **76** (1973), 466 - 470
- [29] — *Dieudonné modules of finite local group schemes.* Proceed. Kon. Ned. Akad. Wetensch. **77** (1974), 284 - 292.
- [30] — *Hyperelliptic curves over number fields.* In: Classification of algebraic varieties and compact analytic manifolds (Ed. H. Popp). Lect. Notes Math. 412, Springer - Verlag 1974; pp. 211 - 218.

- [31] — *Singularities of the moduli scheme for curves of genus three*. Proceed. Kon. Ned. Akad. Wetensch. **78** (1975), 170 - 174.
- [32] — *Which abelian surfaces are products of elliptic curves?* Math. Ann. **214** (1975), 35 - 47.
- [33] — *Fine and coarse moduli schemes are different*. Amsterdam, report 74-10; 25 pp.
- [34] — *Isogenies of formal groups*. Proceed. Kon. Ned. Akad. Wetensch. **78** (1975), 391 - 400.
- [35] — *Families of subgroup schemes of formal groups*. Dedicated to Prof. E. R. Kolchin on the occasion of his sixtieth birthday (Ed. H. Bass et al). Acad. Press NY, 1977; pp. 305 - 319.
- [36] — *Singularities of moduli schemes*. Sém. P. Dubreil **29** (1975/76). Lect. Notes Math. 586, Springer - Verlag 1977; pp. 61 - 76.
- [37] — *Abelian varieties: moduli and lifting problems*. Algebraic Geometry, Proceedings, Copenhagen 1978 (Ed. K. Lønsted). Lect. Notes Math. 732, Springer - Verlag 1979; pp. 477 - 495.
- [38] P. Norman & F. Oort - *Moduli of abelian varieties*. Ann. Math. **112** (1980), 413 - 439.
<http://www.jstor.org/action/exportSingleCitation?singleCitation=true&suffix=1971152>
- [39] T. Oda & F. Oort - *Supersingular abelian varieties*. Internat. Sympos. Algebraic Geometry Kyoto 1977 (Ed. M. Nagata). Kinokuniya Book-store, Tokyo, Japan, 1978; pp. 595 - 621.
- [40] F. Oort & C. Peters - *A Campedelli surface with torsion group $\mathbb{Z}/2$* . Proceed. Kon. Ned. Akad. Wetensch. **84** (1981), 399 - 407.

- [41] — *Coarse and fine moduli spaces of algebraic curves and polarized abelian varieties.* Intl. Sympos. Algebraic Geometry. In: *The Centenary of the birth of Francesco Severi*, Roma 1979. *Symposia Math.* **24**, Ist. Naz. 1981; pp. 293 - 313.
- [42] F. Oort & J. Steenbrink *The local Torelli problem for algebraic curves.* Journ. géom. algébrique, Angers 1979 (Ed. A. Beauville). Sijthoff & Noordhoff 1980; pp. 157 - 204.
- [43] B. van Geemen & F. Oort *A compactification of a fine moduli space of curves.* Utrecht Preprint 301, August 1983.
- [43] B. van Geemen & F. Oort *A compactification of a fine moduli space of curves.* In: *Resolution of Singularities. A research textbook in tribute to Oscar Zariski.* Eds. H. Hauser, J. Lipman, F. Oort, A. Quirós. *Progress in Math.* vol 181, Birkhäuser 2000; pp. 285 - 298.
- [pre-44] H. W. Lenstra jr & F. Oort - *Abelian varieties having very bad reduction.* Utrecht preprint 315, August 1983.
- [44] H. W. Lenstra jr & F. Oort *Abelian varieties having very bad reduction.* *Journ. Pure Appl. Algebra* **36** (1985), 281 - 298.
- [pre-45] T. Ibukiyama, T. Katsura & F. Oort - *Supersingular curves of genus two and class numbers.* Utrecht Preprint 319, December 1983.
- [45] T. Ibukiyama, T. Katsura & F. Oort - *Supersingular curves of genus two and class numbers.* *Compos. Math.* **57** (1986), 127 - 152.
- [pre-46] T. Katsura & F. Oort - *Families of supersingular abelian surfaces.* Utrecht Preprint 398, October 1985.
- [46] T. Katsura & F. Oort - *Families of supersingular abelian surfaces.* *Compos. Math.* **62** (1987), 107 - 167.
- [pre-47] F. Oort & T. Sekiguchi - *The canonical lifting of an ordinary jacobian variety need not be a jacobian variety.* Utrecht Preprint 323, February 1984.
- [47] F. Oort & T. Sekiguchi - *The canonical lifting of an ordinary jacobian variety need not be a jacobian variety.* *Journ. Math. Soc. Japan* **38** (1986), 427 - 437.
- [pre-48] H. J. M. Bos, C. Kers, F. Oort & D. W. Raven - *Poncelet's closure theorem, its history, its modern formulation, a comparison of its modern proof with those by Poncelet and Jacobi, and some mathematical remarks inspired by these early proofs.* Utrecht Preprint 353, November 1984.

- [48] H. J. M. Bos, C. Kers, F. Oort & D. W. Raven - *Poncelet's closure theorem*. Expos. Math. **5** (1987), 269 - 364.
- [pre-49] T. Sekiguchi & F. Oort - *On the deformation of Artin-Schreier to Kummer*. Utrecht Preprint 369, February 1985, 66 pp.
- [49] T. Sekiguchi, F. Oort & N. Suwa - *On the deformation of Artin-Schreier to Kummer*. Ann. Sc. Ec. Norm. Sup. 4.Serie **22** (1989), 345 - 375.
- [pre-50] T. Katsura & F. Oort - *The class number of the principal genus of a positive quaternion Hermitian space of dimension two or three*. Utrecht Preprint 396, October 1985.
- [50] T. Katsura & F. Oort - *Supersingular abelian varieties of dimension two or three and class numbers*. Algebraic geometry, Sendai 1985 (Ed. T. Oda). Adv. Stud. in Pure Math. **10** (1987), Kinokuniya Cy Tokyo and North-Holland Cy Amsterdam, 1987 ; pp. 253 - 281.
- [pre-51] — *Lifting algebraic curves, abelian varieties and their endomorphisms to characteristic zero*. Utrecht Preprint 414, February 1986.
- [51] — *Lifting algebraic curves, abelian varieties and their endomorphisms to characteristic zero*. Algebraic Geometry, Bowdoin 1985 (Ed. S. J. Bloch). Proceed. Sympos. Pure Math. **46** Part 2, AMS 1987; pp. 165 -195.
- [52] T. Sekiguchi & F. Oort *On the deformation of Witt groups to tori*. Algebraic and topological theories - to the memory of Dr. Takehiko Miyata (Ed. M. Nagata et al). Kinokuniya Cy Tokyo, Japan 1986; pp. 283 - 298.
- [pre-53] — *Endomorphism algebras of abelian varieties*. Utrecht Preprint 450, December 1986.
- [53] — *Endomorphism algebras of abelian varieties*. Algebraic Geometry and Commut. Algebra in honor of M. Nagata (Ed. H. Hijikata et al), Kinokuniya Cy Tokyo, Japan, 1988, Vol II; pp. 469 - 502.
- [pre-54] F. Oort & M. van der Put - *A construction of simple abelian varieties*. Math. Inst. Groningen Report ZW 8702, 1987; 14 pp.
- [54] F. Oort & M. van der Put - *A construction of an abelian variety with a given endomorphism algebra*. Compos. Math. **67** (1988), 103 - 120.

- [pre-55] — *Hyperelliptic supersingular curves*. Utrecht Preprint 558, January 1989.
- [55] — *Hyperelliptic supersingular curves*. In: Arithmetic Algebraic Geometry (Texel 1989) (Ed. G. van der Geer, F. Oort, J. Steenbrink). Progress Math. **89**, Birkhäuser 1991; pp. 247 - 284.
- [pre-56] — *CM-liftings of abelian varieties*. Utrecht Preprint 617, August 1990.
- [56] — *CM-liftings of abelian varieties*. Journ. Algebraic Geometry **1** (1992), 131 - 146.
- [pre-57] K.-Z. Li & F. Oort - *Moduli of supersingular abelian varieties*. Utrecht Preprint 824, September 1993.
- [57] K.-Z. Li & F. Oort - *Moduli of supersingular abelian varieties*. Lecture Notes Math. 1680, Springer - Verlag 1998; 116 pp.
- [pre-58] T. Ekedahl & F. Oort *A stratification of a moduli space of polarized abelian varieties*. [In preparation]
- 58 — *A stratification of a moduli space of polarized abelian varieties*. In: *Moduli of abelian varieties*. (Ed. C. Faber, G. van der Geer, F. Oort). Progress Math. 195, Birkhäuser Verlag 2001; pp. 345 - 416.
- [59] — *Moduli of abelian varieties and Newton polygons*. Compt. Rend. Acad. Sc. Paris **312** Sér. I (1991), 385 - 389.
- [60] — *Moduli of abelian varieties in positive characteristic*. Barsotti Symposium in Algebraic geometry (Ed. W. Messing, V. Cristante). Perspect. Math. **15** (1994), 253 - 276.
- [pre-61] — “*The*” general case of S. Lang’s conjecture (after Faltings). Soesterberg 12 - 16 / IV / 1992.
- [61] — “*The*” general case of S. Lang’s conjecture (after Faltings). In: Diophantine approximation on abelian varieties, introductory lectures (Ed B. Edixhoven & J.-H. Evertse), Lect. Notes Math. 1566, Springer - Verlag 1993; Chap. XIII, pp. 117 - 122.
- [pre-62] H. W. Lenstra jr, F. Oort & Yu. G. Zarhin - *Abelian subvarieties*. Utrecht Preprint 842, March 1994; 19 pp.

- [62] H. W. Lenstra jr, F. Oort & Yu. G. Zarhin - *Abelian subvarieties*. Journ. Algebra **180** (1996), 513 - 516.
- [pre-63] F. Oort & Yu. G. Zarhin - *Endomorphism algebras of complex tori*. Utrecht Preprint 852, May 1994.
- [63] F. Oort & Yu. G. Zarhin - *Endomorphism algebras of complex tori*. Math. Ann. **303** (1995), 11 - 29.
- [pre-64] — *Complete subvarieties of moduli spaces*. Lunteren 7/XII/1993. Also: Egloffstein, 3 - 8/X/1994.
- [64] — *Complete subvarieties of moduli spaces*. In: Abelian varieties (Ed. W. Barth, K. Hulek, H. Lange). De Gruyter, Berlin 1995; pp. 225 - 235.
- [65] — *Canonical liftings and dense sets of CM-points*. In: Arithmetic Geometry, Cortona, Italy October 1994 (ed. F. Catanese). Ist. Naz. Alta Mat. F. Severi 1997, Cambridge Univ. Press; pp. 228 - 234.
- [66] — *Rational curves in fibres* (Dedicated to W. Kuijk). Nw. Archief Wiskunde **13** (1995), 427 - 434.
- [pre-67] A. J. de Jong & F. Oort – *On extending families of curves*. Utrecht Preprint 930, October 1995.
- [67] A. J. de Jong & F. Oort – *On extending families of curves*. Journ. Algebr. Geom. **6** (1997), 545 - 562.
- [68] F. Oort & Yu. G. Zarhin – *Complex tori*. Indag. Math. **7** (1996), 473 - 487.
- [69] — *Some questions in algebraic geometry*, preliminary version. Manuscript, June 1995.
- [pre-70] A. J. de Jong & F. Oort - - *Hyperelliptic curves in abelian varieties*. Utrecht Preprint 950, March 1996.
- [70] A. J. de Jong & F. Oort - *Hyperelliptic curves in abelian varieties*. (Dedicated to Yuri Manin. Journ. Math. Sciences **82** (1997), 3211 - 3219.

The paper that referenced your work can be accessed online at the following URL:

<http://www.hindawi.com/journals/imrn/volume-2005/S1073792804143420.html>

- [pre-71] — *A stratification of a moduli space of polarized abelian varieties in positive characteristic.* Utrecht Preprint 997, February 1997.
- 71 — *A stratification of a moduli space of polarized abelian varieties in positive characteristic.* In: Moduli of curves and abelian varieties (The Dutch intercity seminar on moduli) (Eds C. Faber & E. Looijenga), Asp. Math. E 33, Vieweg 1999; pp. 47 - 64.
- [72] — *The algebraic fundamental group.* In: Geometric Galois actions (Ed. L. Schneps & P. Lochak). Vol. 1: Around Grothendieck's *Esquisse d'un programme*. London Math. Soc. Lect. Note Series 242, Cambridge Univ. Press 1997, pp. 67 - 83.
- [pre-73] — *Newton polygons and formal groups: conjectures by Manin and Grothendieck.* Utrecht Preprint 995, January 1997.
- 73 — *Newton polygons and formal groups: conjectures by Manin and Grothendieck.* Ann. Math. **152** (2000), 183 - 206. AG/0007201
www.emis.de/journals/Annals/152_1/oort.pdf
[http://www.jstor.org/action/exportSingleCitation?singleCitation=true\&suffix=2661381](http://www.jstor.org/action/exportSingleCitation?singleCitation=true&suffix=2661381)
- [74] — *Moduli of abelian varieties, finite group schemes and formal groups.* Conference *Low dimensional varieties in positive characteristic*, Amsterdam 24 - 28 /XI/1997. Utrecht Preprint 1038, November 1997; 26 pp.
- [pre-75] — *Units in number fields and in function fields.* Utrecht Preprint 1059, April 1998; 18 pp.
- [75] — *Units in number fields and in function fields.* Expositiones Mathematicae **17** (1999), 97 - 116.
- [pre-76] E. Z. Goren & F. Oort - *Stratifications of Hilbert modular varieties I.* Centre Interuniv. Calcul Math. Algébr., Rapports CICMA (Concordia, Laval, McGill), 1998-01.
- [76] E. Z. Goren & F. Oort - *Stratifications of Hilbert modular varieties.* Journ. Algebraic Geom. **9** (2000), 111-154.
- [pre-77] A. J. de Jong & F. Oort - *Purity of the stratification by Newton polygons.* Utrecht Preprint 1081, December 1998; 35 pp.
- [77] A. J. de Jong & F. Oort - *Purity of the stratification by Newton polygons.* Journ. A.M.S. **13** (2000), 209 - 241. See: <http://www.ams.org/jams/2000-13-01/>

- [pre-78] D. Abramovich & F. Oort – *Alterations and resolution of singularities*. Utrecht Preprint 1071, June 1998; 66 pp.
- [78] D. Abramovich & F. Oort – *Alterations and resolution of singularities*. In: *Resolution of Singularities. A research textbook in tribute to Oscar Zariski*. Eds. H. Hauser, J. Lipman, F. Oort, A. Quirós. Progress in Math. Vol. 181, Birkhäuser 2000; pp. 39 - 108. AG/9806100
- [79] – *Newton polygon strata in the moduli space of abelian varieties*. In: *Moduli of abelian varieties*. (Ed. C. Faber, G. van der Geer, F. Oort). Progress Math. 195, Birkhäuser Verlag 2001; pp. 417 - 440.
- [80] PM: Dan Abramovich & F. Oort - *Stable maps and Hurwitz schemes in mixed characteristic*. Advances in algebraic geometry motivated by physics (Eds E. Previato), AMS special session on enumerative geometry in physics, April 2000, Univ. Mass., Lowell, Massachusetts. Contemp. Math. 276, AMS 2001; pp. 89 - 100. AG/9808074
- [81] PM: H.-P. Kraft & F. Oort – *Finite group schemes annihilated by p* . [In preparation.]
- [82] C. L. Chai & F. Oort – *A Note on the Existence of Absolutely Simple Jacobians* Journal Pure and Applied Algebra **155** (2001), 115 - 120. AG/9905063
- [83] PM: FO – *Abelian varieties with complex multiplications*. Uitgewerkte versie van: “*The Oort - André conjecture*,” Parijs, III-’99.
- [pre-86] S. J. Edixhoven, B. J. J. Moonen & F. Oort (Editors) – *Open problems in algebraic geometry*. [To appear in Bull. Sci. Math.] Universiteit Utrecht, Preprint nr. 1162, oktober 2000.
- [86] S. J. Edixhoven, B. J. J. Moonen & F. Oort (Editors) – *Open problems in algebraic geometry*. Bull. Sci. Math. **125** (2001), 1 - 22. staff.science.uva.nl/ bmoonen/MyPapers/OP.ps
- [87] – *Newton polygons and p -divisible groups: a conjecture by Grothendieck*. Talk on 27-IV-2000 in the “automorphic semester”, Centre Emile Borel at Institut Henri Poincaré. In: *Formes automorphes (I)* (Semestre printemps 2000, Centre Émile Borel) (Ed. J. Tilouine et al). Astérisque **298**, Soc. Math. France 2005; pp. 255 – 269.

- [88] – *Minimal p -divisible groups.* Annals of Math **161** (2005), 1021 – 1036.
<http://annals.math.princeton.edu/issues/2005/161-2.html>
<http://annalstest.math.princeton.edu/annals/2005/161-2/p10.xhtml>
- [89] Ching-Li Chai & Frans Oort – *Hecke orbits.* [In preparation]
- [HO.1] Ching-Li Chai & Frans Oort – *Canonical coordinates on leaves of p -divisible groups.* [In preparation]
- HO.2 =95 – *Irreducibility of Newton polygon strata.* [In preparation] In [95].
- HO.3 =94 FO & CLC – *Hypersymmetric abelian varieties* 5 pp. Version 12-II-2004. [To appear Quarterly Journal of Pure and Applied Mathematics] See [94].
- [90] – *Simple p -kernels of p -divisible groups.* In: Special volume in honor of Michael Artin: Part I - Edited by Aise Johan De Jong, Eric M. Friedlander, Lance W. Small, John Tate, Angelo Vistoli, James Jian Zhang. Advances in Mathematics **198** (2005), pp. 275 - 310. Special volume in honor of Michael Artin: Part I - Edited by Aise Johan De Jong, Eric M. Friedlander, Lance W. Small, John Tate, Angelo Vistoli, James Jian Zhang.
- [91] F. Oort & Th. Zink – *Families of p -divisible groups with constant Newton polygon.* <http://arXiv.org/abs/math/0209264> Documenta Mathematica **7** (2002), 183 – 201, see <http://www.mathematik.uni-bielefeld.de/documenta> <http://www.mathematik.uni-bielefeld.de/documenta/vol-07/09.html>
- [92] – *Foliations in moduli spaces of abelian varieties.* Journ. Amer. Math. Soc. **17** (2004), 267 – 296.
- [93] Editors: G. Cornelissen and F. Oort – *Problems from the workshop on "Automorphisms of Curves" (Leiden, August, 2004).* Authors: I. Bouw, T. Chinburg, G. Cornelissen, C. Gasbarri, D. Glass, C. Lehr, M. Matignon, F. Oort, R. Pries and S. Wewers; Rendiconti del Seminario Matematico, Padova, **113** (2005), 129 – 177. F. Oort – *Abelian varieties isogenous to a Jacobian.*, pp. 165 – 172. F. Oort – *Minimal maximal number of automorphisms of curves.*, page 173.
http://www.numdam.org/item?id=RSMUP_2005__113__129_0
- [94] Ching-Li Chai & F. Oort – *Hypersymmetric abelian varieties.* Pure and Applied Mathematics Quarterly, **2** Special Issue: In honor of John H. Coates (Coates Special Issue) (2006), 1–27.

- [95] F. Oort & C.-L. Chai - *Monodromy and irreducibility of leaves*. Ann. Math. **173** (2011), pp. 1359 – 1396.
<http://annals.math.princeton.edu/2011/173-3/p03>
- [96] F. Oort - *Foliations in moduli spaces of abelian varieties and dimension of leaves*. Algebra, Arithmetic and Geometry: In Honor of Yu. I. Manin (Manin Festschrift; Eds:Y. Tschinkel and Yu. Zarhin), Vol. II, Progress in Mathematics Vol. 270, Birkhäuser, (2009); pp. 465 – 501.
<http://www.math.nyu.edu/~tschinke/.manin/manin-index.html>
- [97] F. Oort – *Congruent numbers in the tenth and in the twentieth century*. Vrolijk, Arnoud & Jan P. Hogendijk (eds.), *O ye Gentlemen: Arabic Studies on Science and Literary Culture, in Honour of Remke Kruk.* - Leiden [etc.]: Brill, 2007; pp. 77 – 97.
- [98] Ching-Li Chai and Frans Oort – *Moduli of abelian varieties and p -divisible groups*. Clay Mathematics Proceedings, Vol. 8. Arithmetic geometry, Clay Mathematics Institute Summer School, Göttingen 2006 (Editors: H. Darmon, D. Ellwood, B. Hassett and Y. Tschinkel). AMS, Clay Math. Inst. 2009; pp. 441 – 536.
<http://www.math.rice.edu/~hassett/conferences/Clay2006/cmi-index.html>
- [99] C.-L. Chai, B. Conrad & F. Oort - *Complex multiplication and lifting problems*. AMS series Mathematical Surveys and Monographs, Vol. 195. AMS 2013.
- [100] F. Oort – *Abelian varieties over finite fields*. Summer School on "Varieties over finite fields", Göttingen, 25-VI — 6-VII-2007. Higher-dimensional geometry over finite fields. Proceedings of the NATO Advanced Study Institute 2007 (Editors: Dmitry Kaledin, Yuri Tschinkel). IOS Press, 2008, pp. 123 – 188.
<http://www.math.nyu.edu/~tschinke/books/finite-fields/finite.html>
- [101] C.-L. Chai & F. Oort – *Abelian varieties isogenous to a Jacobian*. Ann. Math. **176** (2012), 589–635.
<http://annals.math.princeton.edu/2012/176-1/p12>
<http://igitur-archive.library.uu.nl/math/2013-0304-200614/UUindex.html>
- [102] F. Oort – *Moduli of abelian varieties in mixed and in positive characteristic*. Handbook of moduli (Eds Gavril Farkas & Ian Morrison), Vol. III, pp. 75–134. Advanced Lectures in Mathematics **25**, International Press, 2013.
- [103] B. Moonen & F. Oort – *The Torelli locus and special subvarieties*. Handbook of moduli (Eds Gavril Farkas & Ian Morrison), Vol. II, pp. 549–594. Advanced Lectures in Mathematics **25**, International Press, 2013.
- [104] F. Beukers, Florian Luca & F. Oort – *Power values of divisor sums*. Amer. Math. Monthly **119** (2012), 373 – 380. <http://igitur-archive.library.uu.nl/math/2013-0304-200633/UUindex.html>

- [105] F. Oort – *Dynamica en periodieke rijen*. Nw. Archief Wiskunde (5) **13** (2012), 110–111.
[http://igitur-archive.library.uu.nl/math/2013-0301-200939/
nav5-2012-13-2-110.pdf](http://igitur-archive.library.uu.nl/math/2013-0301-200939/nav5-2012-13-2-110.pdf)
- [106] C.-L. Chai & F. Oort – *An algebraic construction of an abelian variety with a given Weil number*. [To appear]
- [107] F. Oort – *Did earlier thoughts inspire Grothendieck?* [To appear in: Alexandre Grothendieck: a mathematical portrait. A collection of articles about the nature of Grothendieck’s mathematics and his style and influence as a mathematician.] See
<http://www.math.jussieu.fr/~leila/grothendieckcircle/portrait.html>
- [108] F. Oort – *Prime numbers*. [To appear] ICCM Notices

Various:

(1963) A. Dold: *Lectures on homotopy theory and half exact functors*. Notes taken and prepared by F. Oort 1963.

(1963) ? *Schoven en cohomologie*. Amsterdam ± 1963.

(1968) — *De volledige doorsnede van twee vlakke algebraïsche krommen*. Voordracht in de serie “Elementaire onderwerpen vanuit hoger standpunt belicht.” Math. Centrum ZW 1968-015.

(1970a) P. Gabriel & F. Oort - *Représentations des groupes linéaires*. Report 70-01, University of Amstereum, 1970.

(1970b) *Algebraic geometry Oslo 1970*. F. Oort, editor. Wolters - Noordhoff 1972.

(1976) K. W. A. Driek - *Quadratic space curves*. Prize winning contribution, Wiskundig Genootschap, 1976.

(XI-1978) Moduli-ruimten van algeb raïsche krommen. Hand-written notes.

(III-1982) *De verdwijning van Kodaira*. Sem. Moduli, maart/april 1982; handgeschreven, 24 pp.

(V-1982) *Eindigheidsstellingen*. Sem. Moduli, mei 1982; handgeschreven, 11 pp.

(XI-1983) *Algebraïsche krommen*. Kaleidoscoop A, 23-XI-1983; handgeschreven 13 pp.

(IX-1984) *Algebraic geometry in mixed characteristics*. Sympos. Algebr. Geom. (Ed. K. Ueno), Tohoku University 25-28/IX/1984.

(1984) *In 1983 Faltings proved conjectures by Mordell, Shafarevich and Tate*. CWI Newsletter 5 (1984), 1 - 21.

(XI-1985) *Priemgetallen*. (Kaleidoscoop A, Utrecht, November 1985); 27 pp. handgeschreven.

(1987) (XI-1988) *Some textbooks on algebraic geometry*. Nw. Archief, 4.Serie 5 (1987), 87 - 92.

(XI-1988) *Waar vinden we priemgetallen?* Lustrum “Mens en wetenschap” van de RUU, 26-XI-1988; 2pp. ms.

(III-1989) *Abelian varieties over finite fields*. Utrecht, III-1989; handgeschreven 18 pp.

(XI-1989) *priemgetallen*. Kaleidoscoop A; november 1989.

(1991a) *Arithmetic Algebraic Geometry* (Ed. G. van der Geer, F. Oort, J. Steenbrink). Progress Math. **89**, Birkhäuser 1991.

(1991b) Book review: *J-P. Serre: Œuvres - Collected papers*. Nw. Archief v. Wiskunde 4.Ser. **9** (1991), 67 - 72.

(III-1991c) F. Oort & T. Ekedahl - *Ample sheaves and irreducibility of moduli spaces*. In: Proceed. Confer. Number Theory and Arithmetic Geometry (Ed. G. Frey). March 12 - 15 1991, Essen. Univ. GH Esseen. Preprint No. 18, 1991.

(1991d) *Opblazen en de 27 lijnen op een kubisch oppervlak*. Kaleidoscoop B 20 - III - 1991; handwritten 14 pp.

(XI-1992) *Betegelingen*. Kaleidoscoop A,30-XI-1992; 24 pp.

(II-1993a) *On singular moduli of rank 2 Drinfeld modules (following D. R. Dorman)*. Intercity Seminar 26-II-1993; 16 pp. handgeschreven.

(1993b) The Theorem of Honda and Tate, presented in VIGRE Number Theory working group, December 2004. *De laatste stelling van Fermat*. Nieuwe Wiskrant **13** (1993), 34 - 37.

(XI-1993c) Syllabus “*De laatste stelling van Fermat*.” Wisk. genootschap & Univ. Utrecht, 6/XI/1993, 97. pp.

(XI-1993d) F. Oort - *Elliptische krommen, van Taniyama-Weil naar Fermat*. In (XI-1993c), pp. 53 - 72.

(1994) Bookreview: *The Grothendieck Festschrift, Vols I, II, III*. Nw. Archief v. Wiskunde 4.Ser. **12** (1994), 201 - 205. The Theorem of Honda and Tate, presented in VIGRE Number Theory working group, December 2004.

(1996) *FLT after three and a century: now a theorem*. De Waaier **6** (1996), 6 - 19. <http://www.win.tue.nl/wire/Waaier/wr496.html>

(III-1996) Pythagoreïsche drietalen en congruente getallen. Kaleidoscoop voordracht maart 1996. 21 pp.

(V-1996) Algebraic curves and complex multiplication. Workshop Arithmetic Algebraic Geometry. Tunxi, Anhui Provence, China, V-1996.

(I-1997) Regelmatische veelvlakken. Kaleidoscoop B, Utrecht, 15-I-1997. 21 pp.

(X-1997a) *Tautological families over moduli spaces of curves*. Manuscript, 6 pp. Intercity Moduli, 24 - X - 1997.

(1997b) *FLT: de laatste stelling van Fermat.* Manuscript, 24 pp. Kaleidoscoop, 12 & 19 - XI - 1997.

(XI-1997) = (1997c) Moduli of abelian varieties, finite group schemes and formal groups. Conference: Low-dimensional varieties in positive characteristic. Amsterdam, 24 – 28 / XI-1997

(1998a) *Alterations can remove singularities.* Featured review. Bull. AMS (New Series) **35** (1998), 319 - 331. <http://www.ams.org/journals/>

(1998b) *Grote getallen.* Natuurkundige voordrachten, Nw. reeks **75** (1998), pp. 21 - 33.

(1998c) *Automorphisms of algebraic varieties.*

[Dedicated to Matsumura, Hideyuki, a personal reflection.]

(I-1999a) *Newton Polygon strata and a conjecture of Grothendieck.* Informal notes, Rennes, 21/I/1999; 12 pp.

(III-1999) *The Oort - André conjecture.* Notes de cours du Centre Émile Borel, Nr. 18; Géométrie Diophantienne, 4/I - 2/IV/1999; 14 pp; second version: 17 pp.

(V-1999b) *Abelian varieties with complex multiplications.* Montreal, notes, 22 pp.; 16-V-1999.

(1999c) *Barsotti-Tate groups and Newton polygons, a proof of a conjecture by Grothendieck, Montreal 1970.* Montreal, notes, 42 pp.; May 1999. / / rightarrow [85]

(1999d) G. van der Geer & F. Oort – *Moduli of abelian varieties: a short introduction and survey.* In: Moduli of curves and abelian varieties (The Dutch intercity seminar on moduli) (Eds C. Faber & E. Looijenga), Asp. Math. E 33, Vieweg 1999; pp. 1 - 21.

(1999e) *Altering singularities.* Mitteil. DMV 4-1999, 13 - 15. Mitteilungen Deutschen Mathematiker Vereinigung, 4-1999, 13 - 15.

(2000a) *Resolution of Singularities. A research textbook in tribute to Oscar Zariski.* Eds. H. Hauser, J. Lipman, F. Oort, A. Quirós. Progress in Math. vol 181, Birkhäuser 2000.

(II-2000b) *On the existence of (non-) simple Jacobians.* Dutch Intercity seminar on Number Theory, 18-II-2000; notes, 10 pp.

(IV-2000c) *Algebra of meetkunde? gewoon wiskunde!* Alumni-dag, Utrecht 1-IV-2000. 11 pp.

(2000d) *FLT: een fascinerende zoektocht, door de eeuwen heen.* De vakidioot, '99-'00, nummer 2; pp. 3 - 7.

(IV-2000) *Newton polygons and p-divisible groups: a conjecture by Grothendieck.* 27-IV-2001. "automorphic semester" Centre Emile Borel at Institut Herri Poincaré.

(2000) *Vermetele schoonheid. Schoonheid,* A-Eskwadraatlustrumalmanak 2000/2001, pp. 105 - 111.

(2001a) *Moduli of abelian varieties.* (Ed. C. Faber, G. van der Geer, F. Oort). Progress Math. 195, Birkhäuser Verlag 2001.

(2001b) *Mijn jeugdriefde.* De Vakidioot, 2000-2001, nummer 4, pp. 26 - 33.

(XII-2001c) *Anabelian number theory and geometry,* Workshop, Lorentz Center Leiden, 3-4-5 / XII / 2001. Ms 28 pp.

(2002a) Johan de Jong & Frans Oort – *The fundamental group of an algebraic curve.* Seminar on Algebraic Geometry, MIT 2002; version December 2001: 22 pp. t **(II-2002b)**

Stratifications and foliations of moduli spaces. Harvard, February 22, 2002. **(II-2002b-bis)**
Stratifications and foliations of moduli spaces. MIT, March 22, 2002, 19 pp.

(2002c) *What is an alteration ?* Notices of the AMS **49** (2002), pp. 1382 – 1383.

(VII-2002d) *Stratifications and foliations of moduli spaces.* Seminar Yuri Manin, Bonn, 30-VII-2002, 9 pp.

(IX-2002e) *The fundamental group.* Basic Notions, General Colloquium, Utrecht, 19 – IX – 2002.

(XII-2002f) *Purity reconsidered.* Conference “The cohomology of moduli spaces” organized by G. van der Geer and C. Faber. Amsterdam 16 - 20 / XII / 2002. Manuscript 9 pp.

(II-2003a) *Monodromy, Hecke orbits and Newton polygon strata* Seminar Algebraic Geometry, Bonn, 24 - II - 2003; 9 pp.

Irreducibility of Newton polygon strata. Preliminary version, 10 pp.. Incorporated in II-2003a, and in III-2003b.

(III-2003b) *Abelian varieties over finite fields.* The Lenstra Treurfeest — A farewell conference, in honour of Hendrik W. Lenstra jr., Berkeley, 21/22/23 - III - 2003.

(V-2003c) *Lifting an automorphism of a curve to characteristic zero.* Talk at the University of Pennsylvania, 7 - V - 2003.

(X-2003d) *Hecke orbits and stratifications in moduli spaces of abelian varieties.* Séminaire Arithmétique et Géométrie Algébrique, Orsay, 14 - X - 2003.

(XI-2003e) *Special points in Shimura varieties, an introduction.* Intercity Seminar, 14 - XI - 2003. Preparation for the Workshop “Special points on Shimura varieties”, Lorentz Center, Leiden, 15 - 19 / XII / 2003, organized by Bas Edixhoven and Frans Oort.

(III-2004) *Ireducibility of Newton polygon strata.* Informal ms 10 pp. 29-III-2004.

(IV-2004a) *Hecke orbits in moduli spaces of abelian varieties and foliations.* Number theory day, Ecole Polytechnique Fédérale Lausanne, and Forschungs-Institut für Mathematik (FIM) at the ETH, Zürich, 2 - IV - 2004. Ms 12 pp.

(II-2005a) *Abelian varieties and p -divisible groups.* 10 pp. Yuri Manin’s Emeritierung Conference 24 – 26 February 2005

(IV-2005b) *Abelian varieties over finite fields.* 26 pp. Gael: Luminy 21 - 25 March 2005

(VII-2005c) *Foliations in moduli spaces of abelian varieties and dimension of leaves.* Felix-Klein-Kolloquium, Düsseldorf 2 - VII - 2005. Manuscript 20 pp. 2005

bf (VIII-2005) *Hecke orbits in moduli spaces.* Talk at the 2005 AMS Summer Institute on Algebraic Geometry.

(XII-2005d) *Stratifications and foliations of moduli spaces of abelian varieties.* Algebraic Geometry and beyond, 60-th birthday of K. Ueno, Kyoto 12-16/XII/2005; 27 pp.

(V-2006a) F. Oort: Abelian varieties over finite fields. Spring School on abelian varieties, Utrecht May 2006; 40 pp.

(V-2006b) Frans Oort and Ching-Li Chai — *Monodromy and irreducibility of leaves.* Conference on abelian varieites, Amsterdam 29 -31 May 2006; 30 pp.

(VII-2006c) Ching-Li Chai and Frans Oort – *Moduli of abelian varieties and p -divisible groups: density of Hecke orbits and a conjecture by Grothendieck.* Informal notes. Clay Mathematics Summer School on Arithmetic Geometry, Goettingen, July/August 2006; 86 pp.

(IX-2006d) *All Penrose tilings.* Geometric patterns in Islamic art, Workshop, Lorentz Center Leiden, September 2006. Informal notes, 16 pp.

(2006/2007) Pythagoreïsche drietallen. Informatie werkstuk Kaleidoscoop. 8 pp.

(II-2007a) *Irreducibility of strata and leaves in the moduli space of abelian varieties.* A series of lectures; University of Tokyo, January 2007; RIMS, Kyoto, February 2007; 14pp. Informal notes.

<http://www.kurims.kyoto-u.ac.jp/~kenkyubu/proj06/seminars-e.html>

(III-2007b) *All Penrose tilings.* Kaleidopscoop Utrecht, 13-III-2007. Informal notes, 17 pp.

(II-2007c) *CM-liftings of abelian varieties.* Talk at the conference *Siegel modular forms and abelian varieties*, Hamana-ko, Japan, February 2007; this manuscript: April 2007. ms 7pp. Proceedings of the fourth Spring Conference Siegel Modular Forms and Abelian Varieties.

(IV-2007d) *CM-liftings of abelian varieties.* Talk at the conference *The Marius fest*, Groningen, April 2007; 7 pp.

(II-2007e) *Supersingular abelian varieties and foliations .
CM-liftings of abelian varieties.*

Proceedings of the 4-th Spring Conference on Siegel modular forms and abelian varieties. Feb. 5 - Feb. 9, 2007. Editor: T. Ibukiyama. Printed by Ryushido, November 2007; pp. 27 – 38, 61 – 67.

(XII-2007f) *AO in Utrecht...*

(XII-2007g) *Foliations in a moduli space of abelian varieties.* GEOMETRY DAYS Thursday May 31 - Saturday June 2, 2007 at the Radboud University of Nijmegen. In honour of the 60th birthday of Joseph Steenbrink.

(XII-2007h) *Van Fermat tot Wiles, fascinerende wiskunde.* HOVO cursus, Utrecht, oktober/november 2007. Syllabus 104 pp.

(VI-2008a) *Review of Measuring the World by Daniel Kehlmann;* to appear, Notices of the AMS June/July 2008, pp. 681 – 684.

(2009a) *Grothendieck: de nieuwe algebraïsche meetkunde.* De vakidoot, Jubileumnummer 2009, Jaargang 2008/2009, Nummer 3, pp. 46 – 56.

(2009b) *Vermoedens in de wiskunde, fascinerende vooruitgang.* HOVO-cursus wiskunde Utrecht, maart/april 2009. Syllabus 116 pp.

(VI-2009c) *Hecke orbits.* Arbeitstagung Bonn, 2009.
<http://www.mpim-bonn.mpg.de/preprints/retrieve>
MPIM2009-40f

(2009d) *Grothendieck: de nieuwe algebraïsche meetkunde.* Nw Archief Wiskunde 5-de serie, deel 10, nummer 3, september 2009, pp. 170 – 175.

(2009e) Congruente getallen. Kaleidoscoop voordracht. Utrecht, 10 – II - 2009.

(2010) *Special subvarieties in the Torelli locus.* Algebra Seminar UPenn Philadelphia 18-X-2010.

(2011a) *Abelprijs 2010 voor John Tate.* Nw. Archief Wiskunde (Maart 2011), pp. 44 – 48. Voordracht Nijmegen 28-IV-2010, Leiden, 8-X-2010. Voordracht General Colloquium UPenn Philadelphia, 20-X-2010.

- (2011b) *Elliptische krommen*. Project, Utrecht, september – december 2011; 41 pp.
- (2011c) *Elliptische krommen en hun rol in de wiskunde*. HOVO-cursus wiskunde, Utrecht; november / december 2011; 95 pp.
- (2011d) *Did earlier thoughts inspire Grothendieck?* Talk algebra seminar, University of Pennsylvania, 7 – XI – 2011; 17 pp.
- (2012a) *Lifting Galois covers of algebraic curves*. Talk number theory seminar, Utrecht 8-VI-2012.
- (2012b) *CM Jacobians*. Talk Conference: Galois Covers and Deformations, Bordeaux 25 - 29 / VI / 2012.
- (2012c) *Priemgetallen*. Communiceren wiskunde; 13-XI-2012; 30 pp.
- (2012d) *Abelian varieties over finite fields*. Seminar number theory and algebra, Utrecht, 22-XI-2012.
- (2012e) Interview on 3-XII with Professor Ching-Li Chai and Ms Li-Wu Chen. This will be written up, translated into Chinese, and published in MathMedia.
- (2012f) *Prime numbers*. Talk Taiwan 7-XII-2012. This will be written up, translated into Chinese, and published in MathMedia.
- (2012g) *Arithmetic and geometry: 3 conjectures about dense sets of points*. Talk Taiwan 10-XII-2012. Colloquium Dept. of Math., National Taiwan University (NTUmath) Institute of Mathematics, Academia Sinica (IoMAS)
- (2012h) *Abelian varieties over finite fields*. Talk Taiwan 13-XII-2012.
- (2013a) *Abelian varieties and Weil numbers*. Talks: general colloquium University of Pennsylvania, Philadelphia, and algebraic geometry seminar Columbia University NYC, 9 & 11October 2013; 47 pp.
- (2013b) *Priemgetallen*. HOVO-cursus 13-XI ~ 18-XII-2013. Syllabus 96 pp.
- (2013c) *Elliptische krommen*. Onderwijs: Project, 14-XI-2013 ~ 23-I-2014. Syllabus 52 pp.
- (2013d) *Priemgetallen*. Voordracht Communiceren Wiskunde, 31 pp.

- [B1] — *Bach en het getal?* Nw. Archief v. Wiskunde 4.Ser. **8** (1990). 91 - 110.
- [B2] — *De toekomst ondervragen.* Oort, F. Afscheidscollege, Utrecht 13- X - 2000; 59 pp.
- [B3] — *Illustratie, getal en harmonie in muziek van muziek van Johann Sebastian Bach.* Studium generale, Utrecht 24-IV-2001. Handout, 10 pp.
- [B4] — *Overzicht allerlei aspecten van muziek van Johann Sebastian Bach.*
- [B5] — *An aspect of harmony in music of Johann Sebastian Bach.* Understanding Bach through Science, Art and Criticism, International Symposium on Johann Sebastian Bach, University of Oxford, 17 and 18 December 2001. Ms. 16 pp.
- [B6] — A - Es: de verminderde kwint. De Vakidoot 2002-2003, nummer 3, pp. 3 - 9.

Frans Oort
Mathematisch Instituut
Budapestlaan 6
NL - 3508 TA Utrecht
The Netherlands
email: f.oort@uu.nl
postal address: Pincetonplein 5
Pincetonplein 5
NL - 3584 CC Utrecht, The Netherlands