

# Bibliography

- [A-F] D. Allcock, E. Freitag, *Cubic surfaces and Borcherds products*, epreprint Math. AG/0002066.
- [Ar1] V.I. Arnol'd, *Normal forms for functions near degenerate critical points, the Weyl groups of  $A_k, D_k, E_k$  and Lagrangian singularities*, Funk. Anal. Appl., 6 (1972), 254-272.
- [Ar2] V.I. Arnol'd, *Normal forms of functions near degenerate critical points*, Russian Math. Surveys, 29 (2) (1974), 11-49.
- [B] A. Borel, *Linear Algebraic Groups* (second Enlarged Edition), Springer-Verlag, 1991.
- [Ba] H. F. Baker, *Notes on the theory of the cubic surface*, Proc. London Math. Soc. Ser. 2, Vol. IX. Parts II and III (1910), 205-230.
- [Bar] F. Bardelli, *Osservazioni sui moduli delle superfici cubiche generali*, Atti Accad. Naz. Lincei 64 (1978), 137-141.
- [B-D] F. Bardelli, A. Del Centina, *Nodal cubic surfaces and the rationality of the moduli space of curves of genus two*, Math. Ann. 270 (1985), 599-602.
- [Be] N.D. Beklemishev, *Invariants of cubic forms in four variables*, Vestnik Moskovskogo Universiteta. Matematika, Vol. 37, No. 2 (1982), 42-49.
- [B-L] M. Brundu, A. Logar, *Parametrization of the orbits of cubic surfaces*, Transformation Groups, Vol. III (1998), 1-31.
- [Bl1] W.H. Blythe, *On the construction of models of cubic surfaces*, Quart. Journ. Vol. XXIX (1898), 206-223.
- [Bl2] W.H. Blythe, *On the construction of models of cubic surfaces*, Quart. Journ. Vol. XXXIII (1901), 266-270.
- [B-W] J. W. Bruce, C. T. C. Wall. *On the classification of cubic surfaces*, J. London Math. Soc. (2), 19 (1979), 245-256.
- [C1] A. Cayley, *A memoir on cubic surfaces*, Phil. Trans. Roy. Soc. 159 (1869), 231-326.
- [C2] A. Cayley, *On the triple tangent planes of surfaces of the third order*, Camb. and Dublin Math. Journal, Vol. IV. (1849), 118-132.

- [Cr] L. Cremona, *Mémoire de géométrie pure sur les surfaces du troisième ordre*, Crelle's Journal, Vol. LXVIII (1868), 1-133.
- [D-O] I. Dolgachev, D. Ortland, *Point sets in projective space and theta functions*, Soc. Mathématique de France, Astérisque 165, 1988.
- [E-H] D. Eisenbud, J. Harris, *Schemes: The Language of Modern Algebraic Geometry*, Wadsworth & Brooks/ Cole Advanced Books & Software, 1992.
- [Ec] F. E. Eckardt, *Ueber diejenigen Flächen dritten Grades, auf denen sich drei gerade Linien in einem Punkte schneiden*, Math. Ann. Vol. 10 (1876), 227-272.
- [F] J. Forgy. *Algebraic families on an algebraic surface*, Amer. J. Math. 90 (1968), 511-521.
- [G] A. Grothendieck. *Techniques de construction et théorèmes d'existence en géométrie algébrique, IV: Les schémas de Hilbert*, Sémin. Bourbaki, n. 221 (1960/61).
- [G-H] P. Griffiths, J. Harris. *Principles of Algebraic Geometry*, John Willey & Sons, Inc., 1994.
- [Ge] A. Geramita, *Lectures on the non-singular cubic surfaces in  $\mathbb{P}^3$* , Queen's Papers in Pure and Applied Mathematics 83 (1989).
- [Gei] C. F. Geiser, *Ueber die Doppeltangenten einer ebenen Curve vierten Grades*, Math. Ann. Bd. I. (1869), 129-138.
- [GIT] D. Mumford, J. Fogarty, and F. Kirwan, *Geometric Invariant Theory* (Third Enlarged Edition), Springer-Verlag, 1994.
- [H] R. Hartshorne, *Algebraic Geometry*, Grad. Texts in Math. 52, Springer-Verlag, 1977.
- [Ha] J. Harris, *Algebraic Geometry*, Grad. Texts in Math. 133, Springer-Verlag, 1992.
- [He] A. Henderson, *The Twenty-seven Lines upon the Cubic Surfaces*, Hafner Publishing Co. New York, 1911.
- [Hu1] B. Hunt, *The Geometry of some Special Arithmetic Quotients*, LNM 1637, Springer-Verlag Berlin Heidelberg 1996.
- [Hu2] B. Hunt, *A gem of the modular universe*, epreprint Math. AG/9503018.
- [K] F. Klein, *Lectures on Mathematics*, Evanston Colloquium. Macmillan and Co., N. Y. 1894.
- [Ma1] Yu. I. Manin, *Cubic Forms: Algebra, Geometry, Arithmetic*, North-Holland, Amsterdam, 1974.
- [Ma2] Yu. I. Manin, *Cubic hypersurfaces I. Quasigroups of classes of points*, Izv. Akad. Nauk SSSR Ser. Mat. 32 (1968), 1223-1224 (in Russian).

- [Ma3] Yu. I. Manin, *Hypersurfaces cubiques II. Automorphismes birationnels en dimension deux*, Invent. Math. 6 (1969), 334-352.
- [Ma4] Yu. I. Manin, *Cubic hypersurfaces III. Moufang loops and Brauer equivalence*, Mat. Sb. 79 (121) (1969), 155-170 (in Russian).
- [Mu1] D. Mumford, *Algebraic Geometry I, Complex Projective Varieties*, Springer-Verlag, 1976.
- [Mu2] D. Mumford, *The Red Book of Varieties and Schemes*, LNM 1358, Springer-Verlag, 1988.
- [Mu3] D. Mumford, *Stability of projective varieties*, Enseign. Math., 23 (1977), 39-110.
- [N] P. E. Newstead, *Lectures on Introduction to Moduli Problems and Orbit Spaces*, Tata Inst. Lecture Notes, Springer-Verlag, 1978.
- [Na] I. Naruki, *Cross ratio varieties as a moduli space of cubic surfaces*, Proc. London Math. Soc. (3), 45 (1982), 1-80.
- [N-M] M. Nagata, T. Miyata, *Note on semi-reductive groups*, J. Math. Kyoto Univ. 3 (1963/64), 379-382.
- [Na-Se] I. Naruki, J. Sekiguchi, *A modification of Cayley's family of cubic surfaces and birational action of  $W(E_6)$  over it*, Proc. Japan Acad., 56, Ser. A (1980), 122-125.
- [R] M. Reid, *Undergraduate Algebraic Geometry*, London Mathematical Society Student Texts 12, 1990.
- [S1] B. Segre, *The Non-Singular Cubic Surfaces*, Oxford, at the Clarendon Press, 1942.
- [S2] B. Serge, *The rational solutions of homogeneous cubic equation in four variables*, Math. Notae Univ. Rosario anno II, fasc. 1-2 (1951), 1-68.
- [Sa] G. Salmon, *On the triple tangent planes to a surface of the third order*, Cambridge and Dublin Math. J. 4 (1849), 252-260.
- [Sch1] L. Schläfli, *On the distribution of the surfaces of the third order into species*, Phil. Trans. Roy. Soc. 153 (1864), 193-247.
- [Sch2] L. Schläfli, *An attempt to determine the twenty-seven lines upon a surface of the third order, and to divide such surfaces into species in reference to the reality of the lines upon the surface*, Quart. J. Math. 2 (1858), 56-65.
- [Se1] J. Sekiguchi, *The configuration space of 6 points in  $\mathbb{P}^2$ , the moduli spaces of cubic surfaces and the Weyl group of type  $E_6$* , RIMS Kokyuroku 848 (1993), 74-85.

- 
- [Se2] J. Sekiguchi, *The versal deformation of the  $E_6$ -singularity and a family of cubic surfaces*, J. Math. Soc. Japan 46, n. 2 (1994), 355-383.
- [Sp] T. A. Springer, *Linear Algebraic Groups*, Progress in Math. 9, Birkhäuser, 1981.
- [St] J. Steiner, *The twenty-seven real straight lines on the cubic surface*, Monatsberichte der K. Preuss. Akademie der Wissenschaften, Berlin (1856), 50-58
- [T1] N. C. Tu, *Non-singular cubic surfaces with at least 1,2 or 3 star points*, C.F.C.A. Vol. 2 (1998), 30-45.
- [T2] N. C. Tu, *Non-singular cubic surfaces with star points*, preprint nr. 1082, Department of Mathematics, Utrecht University, 12/1998.
- [Ze] H. G. Zeuthen, *Sur les différentes formes des courbes planes du quatrième ordre*, Math. Ann. Vol. VI (1874), 410-432.
- [Y] M. Yoshida, *A  $W(E_6)$ -equivariant projective embedding of the moduli space of cubic surface*, epreprint Math. AB/0002102.