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REFERENCES

- [Abe] ABELSON, Harold. Fundamental groups of plane curves and their duals. *Indiana Univ. Math. J.* 25 (1976), No. 1, 65-67. MR 53 # 5603.
- [Ab] ABHYANKAR, Shreeram. Tame coverings and fundamental groups of algebraic varieties. V. Three cuspidal plane quartics. *Amer. J. Math.* 82 (1960), 365-373. MR 22 # 1577.
- [A-M] ABHYANKAR, S. and Tzuong-Tzieng MOH. Embeddings of the line in the plane. *J. reine ange. Math.* 276 (1975), 148-166. MR 52 # 407.
- [A-S] ABHYANKAR, S. and Balwant SINGH. Embeddings of certain curves in the affine plane. *Amer. J. Math.* 100 (1978), 99-175. MR 58 # 16663.
- [Bi] BIRMAN, Joan. *Braids, Links, and Mapping Class Groups*. Ann. Math. Studies 82 (1975), Princeton University Press.
- [Bi-W] BIRMAN, J. and R. F. WILLIAMS. Knotted Periodic Orbits in Dynamical Systems. I: Lorenz's Equations. *Topology* 22 (1983), 47-82.
- [Bl] BLISS, Gilbert Ames. *Algebraic Functions*. Amer. Math. Soc. Colloquium Publications, vol. XVI (1933).
- [Cha] CHANG, Haichau. On two classical facts by Zariski and van Kampen. *Chinese J. Math.* 7 (1979), 153-161.
- [Che] CHENIOT, D. Une démonstration du théorème de Zariski sur les sections hyperplanes d'une hypersurface projective et du théorème de van Kampen sur le groupe fondamental du complémentaire d'une courbe projective plane. *Compositio Math.* 27 (1973), 141-158.
- [De] DELIGNE, P. Le groupe fondamental du complément d'une courbe plane n'ayant que des points doubles ordinaires est abélien. *Sém. Bourbaki*, Nov. 1979.
- [E-N] EISENBUD, D. and Walter NEUMANN. Fibering Iterated Torus Links. (*To appear*).
- [F-H] FULTON, W. and J. HANSEN. A connectedness theorem for projective varieties, with applications to intersections and singularities of mappings. *Ann. Math.* 110 (1979), 159-166.
- [G-R] GUNNING, R. C. and Hugo ROSSI. *Analytic Functions of Several Complex Variables*. Prentice-Hall, 1965.
- [H] HITOTUMATU, Sin. Some recent topics in several complex variables by the Japanese school. (Report of work by T. Nishino), in *Proceedings of the Romanian-Finnish Seminar on Teichmüller Spaces and Quasi-Conformal Mappings*, Brasov, Romania, 1969, Acad. Soc. Rep. Romania (1971), 187-191.
- [Jo] JOHNSON, D. *Homomorphs of knot groups*. Preprint, Jet Propulsion Laboratory, Pasadena, California (1978).
- [Lau] LAUFER, Henry B. On the number of singularities of an analytic curve. *Trans. Amer. Math. Soc.* 136 (1969), 527-535.
- [Lau 2] —— Some numerical link invariants. *Topology* 10 (1971), 119-131.
- [Lê] LÊ DUNG TRANG. Sur les noeuds algébriques. *Compositio Math.* 25 (1972), 281-321.
- [Li] LITHERLAND, R. A. Signatures of iterated torus knots. In *Topology of low-dimensional manifolds*, Lecture Notes in Mathematics 722 (1979), Springer, Berlin, 71-84. MR # 80k-57012.
- [Mi 1] MILNOR, J. W. *Morse Theory*. Ann. Math. Studies 51 (1965), Princeton University Press.

- [Mi 2] —— *Singular Points of Complex Hypersurfaces*. Ann. Math. Studies 61 (1969), Princeton University Press.
- [Mo] MOISHEZON, B. G. Stable branch curves and braid monodromies. *Algebraic Geometry (Chicago, Illinois, 1980)*, Lecture Notes in Mathematics 862 (1981), 107-192, Springer, Berlin.
- [Ru 1] RUDOLPH, Lee. Algebraic functions and closed braids. *Topology* 22 (1983), 191-202.
- [Ru 2] —— Braided surfaces and Seifert ribbons for closed braids. To appear in *Comm. Math. Helv.* (1983).
- [Ru 3] —— Constructions of quasipositive knots and links, I. In *Nœuds, tresses et singularités*, Monographie de l'Enseignement Mathématique N° 31, Genève 1983, 233-245.
- [Ru 4] —— Embeddings of the line in the plane. *J. reine ange. Math.* 337 (1982), 113-118.
- [Ru 5] —— Non-trivial positive braids have positive signature. *Topology* 21 (1982), 325-327.
- [Ru 6] —— Question printed in “Queries” column. *Notices Amer. Math. Soc.* 23 (1976), p. 410 (from a problem list compiled at the Special Session on Knot Theory, 1976 Summer Meeting of A.M.S., Toronto).
- [St] STALLINGS, J. Constructions of fibred knots and links. In *Algebraic and Geometric Topology* (Proc. Symp. Pure Math. XXXII), part 2 (1978), 55-60, Amer. Math. Soc., Providence, R. I.
- [vK] VAN KAMPEN, E. R. On the fundamental group of an algebraic curve. *Amer. J. Math.* 55 (1933), 255-260.
- [Ya] YAJIMA, T. Wirtinger presentations of knot groups. *Proc. Jap. Acad. Sci.* 46 (1970), 997-1000.
- [Z] ZARISKI, O. On the problem of existence of algebraic functions of two variables possessing a given branch curve. *Amer. J. Math.* 51 (1929), 305-328.

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