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BIBLIOGRAPHY ON MAIN RING MAGNETS

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We have prepared a bibliography of published and semi-published papers on the design, construction, and performance of the main ring dipoles and quadrupoles. Part I lists the sources which include the proceedings of the national and international accelerator conferences and the magnet technology conferences as well as internal reports. Part II lists general review papers on Fermilab. Part III lists papers on the main ring quadrupoles and Part IV lists papers on the dipoles. The papers are listed in rough chronological order, grouped into published and unpublished.

The NAL Design Report of July 1968 is of course a prime source for the basic design.

I. Summary of References

A. Proceedings of Accelerator Conferences

Abbreviation	
PAC-67	Washington, D.C., March 1-3, 1967 IEEE Trans. Nuc. Sci., NS-14, No. 3 (June 1967)
PAC-69	Washington, D.C., March 5-7, 1969 IEEE Trans. Nuc. Sci., NS-16, No. 3 (June 1969)
PAC-71	Chicago, IL, March 1-3, 1971 IEEE Trans. Nuc. Sci., NS-18, No. 3 (June 1971)
PAC-73	San Francisco, CA, March 5-7, 1973 IEEE Trans. Nuc. Sci., NS-20, No. 3 (June 1973)
PAC-75	Washington, D.C., March 12-14, 1975 IEEE Trans. Nuc. Sci., NS-22, No. 3 (June 1975)

B. Proceedings of International Conferences on High Energy Accelerators

HEA-7	Proc. of the 7th Inter. Conf. on High Energy Accelerators, Cambridge, MA - 1967
HEA-8	Proc. of the 8th Inter. Conf. on High Energy Accelerators, CERN - 1971
HEA-9	Proc. of the 9th Inter. Conf. on High Energy Accelerators, Stanford - 1974

C. Proceedings of International Conferences on Magnet Technology

MT-3	Proc. of Inter. Conf. on Magnet Technology, Hamburg - 1970
MT-4	Proc. of the 4th Inter. Conf. on Magnet Technology, BNL - 1972
MT-5	Proc. of the 5th Inter. Conf. on Magnet Technology, Roma - 1975

D. Internal Reports of Fermilab

TM-xxx	Technical Memos
FN-xxx	Physics Notes
EN-xxx	Engineering Notes

II. General Review Papers on Fermilab

Wilson, R.R., Some Aspects of the 200 GeV Accelerator, HEA-7, p. 210.

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III. Quadrupole Magnets

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Shoemaker, F.C., Matching Quadrupole Aperture Increase, FN-141, April 30, 1968.

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Juhala, R., Differences Between the Gradients in the F and D Main Ring Quads, TM-340, June 15, 1973.

Snowdon, S.C., Transfer Function and Coil Impedance for the Main Ring Quadrupole Magnets, TM-352, February 23, 1972.

Ruggerio, A., Sextupole and Octupole Fields in the Main Ring Quadrupoles, TM-403, December 8, 1972.

See also:

Schivell, J., Notes on the New Design for the Main Ring Quadrupole, April 8, 1970 - filed in the TM folder.

and see;

Bingham, G. McD., Correction of Main Ring Quadrupole Positions Using Closed Orbit Information, TM-200, January 10, 1970.

Ohnuma, S., Quadrupoles Roll Errors and Horizontal-Vertical Coupling In the Main Ring, TM-393, September 25, 1972.

IV. Dipole Magnets

Lari, R.J., Teng, L.C., Field Design of the Main Ring Bending Magnets of the NAL 200-GeV Synchrotron, PAC-69, p. 667.

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Yamada, R., Schmidt, C., Juhala, R., Lari, R., Design and Magnetic Measurement of the NAL Main Accelerator Bending Magnets, MT-4, p. 423.

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