REFERENCES

Allspach, D. et al. (1998). The variable density gas jet internal target for Experiment 835 at Fermilab. *Nucl. Instrum. Meth. Phys. Res. A 410*, 195–205.

Ambrogiani, M. et al. (1997). Construction and Performance of a Cylindrical Scintillating Fiber Detector for Experiment 835 at FNAL. *IEEE Trans. Nucl. Sci. 44*, 460–463.

Ambrogiani, M. et al. (1998). The E835 scintillating fiber tracking detector. *Nucl. Phys. B (Proc. Suppl.) 61B*, 384–389.

Andivahis, L. et al. (1994). Measurements of the electric and magnetic form factors of the proton from $Q^2 = 1.75$ to 8.83 $(\mathrm{GeV/c})^2$. *Phys. Rev. D 50*(9), 5491–5517.

Antonelli, A. et al. (1994). Measurement of the electromagnetic form factor of the proton in the time-like region. *Phys. Lett. B 334*, 431–434.

Armstrong, T. A. et al. (1992a). Observation of the $^1P_1$ State of Charmonium. *Phys. Rev. Lett. 69*(16), 2337–2340.

Armstrong, T. A. et al. (1992b, September). Proposal to Continue the Study of Charmonium Spectroscopy in Proton-Antiproton Annihilations. Proposal P-835, Fermilab. Presented by the E760 Collaboration.

Armstrong, T. A. et al. (1993). Proton Electromagnetic Form Factors in the

Timelike Region from 8.9 to 13.0 GeV^2. *Phys. Rev. Lett. 70*(9), 1212–1215.

Armstrong, T. A. et al. (1996). Precision measurements of antiproton-proton forward elastic scattering parameters in the 3.7 to 6.2 GeV/c region. *Phys. Lett. B 385*, 479–486.

Armstrong, T. A. et al. (1997). Two-body neutral final states produced in antiproton-proton annihilations at $2.911 \leq \sqrt{s} \leq 3.686$ GeV. *Phys. Rev. D 56*(5), 2509–2531.

Atac, M. (1998). Visible Light Photon Counters (VLPCs) for High Rate Tracking Medical Imaging and Particle Astrophysics. See Bross, Ruchti, and Wayne (1998), pp. 315–331.

Baglin, C. et al. (1985). Upper Limits of the Proton Magnetic Form Factor in the Time-like Region from $\bar{p}p \to e^+e^-$ at the CERN-ISR. *Phys. Lett. 163B*(5,6), 400–403.

Bagnasco, S. et al. (1997, June). FCAL II: Design and Construction. Fermilab E-835 Internal Note, unpublished.

Bagnasco, S. et al. (1998a). A straw chambers' tracker for the high rate experiment 835 at the Fermilab accumulator. *Nucl. Instrum. Meth. Phys. Res. A 409*, 75–78.

Bagnasco, S. et al. (1998b). The Threshold Gas Cherenkov Counter of Charmonium Experiment 835 at Fermilab. *Nucl. Instrum. Meth. Phys. Res.*. Submitted.

Baldini, W. and F. Marchetto (1997, April). Charged trigger efficiency for inclusive J/ψ. Fermilab E-835 Internal Note, unpublished.

Bardin, G. et al. (1991a). Measurement of the proton electromagnetic form factor near threshold in the time-like region. *Phys. Lett. B 255*(1), 149–154.

Bardin, G. et al. (1991b). Precise determination of the electromagnetic form factor of the proton in the time-like region up to $s = 4.2\,\text{GeV}^2$. *Phys. Lett. B 257*(3,4), 514–518.

Bardin, G. et al. (1994). Determination of the electric and magnetic form factors of the proton in the time-like region. *Nucl. Phys. B411*, 3–32.

Bartoszek, L. et al. (1991). The E760 lead-glass central calorimeter: design and initial test results. *Nucl. Instrum. Meth. Phys. Res. A 301*, 47–60.

Bassompierre, G. et al. (1976). Measurement of the Branching Ratio $\Gamma(\bar{p}p \rightarrow e^+e^-)/\Gamma(\bar{p}p \rightarrow \text{total})$ in Antiproton-Proton annihilation at Rest. *Phys. Lett. 64B*(4), 475–478.

Bassompierre, G. et al. (1977). First Determination of the Proton Electromagnetic Form Factors at the Threshold of the Time-like Region. *Phys. Lett. 68B*(5), 477–479.

Biino, C. et al. (1992). A large acceptance threshold cherenkov counter for Experiment 760 at Fermilab. *Nucl. Instrum. Meth. Phys. Res. A 317*, 135–142.

Bisello, D. et al. (1983). A Measurement of $e^+e^- \rightarrow \bar{p}p$ for $(1975 \leq \sqrt{s} \leq 2250)$ MeV. *Nucl. Phys. B224*, 379–395.

Bisello, D. et al. (1990). Barion pairs production in e^+e^- annihilation at $\sqrt{s} = 2.4$ GeV. *Z. Phys. C 48*, 23–28.

Braunschweig, W. et al. (1975). Two-body Hadronic Decays of the 3.1 GeV Resonance. *Phys. Lett. 57B*(3), 297–300.

Bross, A. D., R. C. Ruchti, and M. R. Wayne (Eds.) (1998). *SciFi97: Workshop on Scintillating Fiber Detectors*, AIP Conference Proceedings 450, Woodbury, New York. American Institute of Physics.

Buran, T. et al. (1976). Antiproton-proton annihilation into $\pi^+\pi^-$ and K^+K^- at 6.2 GeV/c. *Nucl. Phys. B116*, 51–64.

Buzzo, A. et al. (1997). A Silicon Pad Detector for E-835 experiment at Fermilab. *Nucl. Instrum. Meth. Phys. Res. A 391*, 443–451.

Cabibbo, N. and R. Gatto (1961). Electron-Positron Colliding Beam Experiments. *Phys. Rev. 124*(5), 1577.

Caso, C. et al. (1998). Review of Particle Physics. *Euro. Phys. J. C 3*(1–4), 1–794.

Castellano, M. et al. (1973). The Reaction $e^+e^- \rightarrow p\bar{p}$ at a Total Energy of 2.1 GeV. *Nuovo Cimento 14 A*(1), 1–20.

Cester, R. and P. Rapidis (1994). Charmonium Formation in $\bar{p}p$ Annihilations. *Annu. Rev. Nucl. Part. Sci. 44*, 329–371.

Church, M. D. and J. P. Marriner (1993). The Antiproton Sources: Design and Operation. *Annu. Rev. Nucl. Part. Sci. 43*, 253–295.

Conversi, M. et al. (1965). The Leptonic Annihilation Modes of the Proton-Antiproton System at 6.8 $(\mathrm{GeV}/c)^2$ Timelike Four-Momentum Transfer. *Nuovo Cimento XL A*(2), 690–701.

Dalpiaz, P. (1979). Charmonium and Other Onia at Minimum Energy. In H. Poth (Ed.), *Karlsruhe 1979: Physics with Cooled Low Energetic Antiprotons (First LEAR Workshop)*, pp. 111–124.

Delcourt, B. et al. (1979). Study of the Reaction $e^+e^- \rightarrow p\bar{p}$ in the Total Energy Range 1925–2180 MeV. *Phys. Lett. 86B*(3,4), 395–398.

Eide, A. et al. (1973). Elastic scattering and two-body annihilations at 5 GeV/c. *Nucl. Phys. B60*, 173–220.

Ernst, F. J., R. G. Sachs, and K. C. Wali (1960). Electromagnetic Form Factors of the Nucleon. *Phys. Rev. 119*(3), 1105–1114.

Feldman, G. J. and R. D. Cousins (1998). Unified approach to the classical statistical analysis of small signals. *Phys. Rev. D 57*(7), 3873–3889.

Fields, T. et al. (1972). Comparison of new data on $\bar{p}p \to \pi^-\pi^+$ and other two meson states at 2.3 GeV/c. *Phys. Lett. 40B*(4), 503–506.

Foldy, L. L. (1952). The Electromagnetic properties of Dirac Particles. *Phys. Rev. 87*(5), 688–693.

Garzoglio, G. (1998). Private communication.

Gousset, T. and B. Pire (1995). Timelike form factors at high energy. *Phys. Rev. D 51*(1), 15–24.

Hand, L. N., D. G. Miller, and R. Wilson (1963). Electric and Magnetic Form Factors of the Nucleon. *Rev. Mod. Phys. 35*(2), 335–349.

Hartill, D. L. et al. (1969). Antiproton-Proton Annihilation into Electron-Positron Pairs and Gamma-Ray Pairs. *Phys. Rev. 184*(5), 1415–1423.

Hasan, M. A. et al. (1990). The Fermilab E760 forward electromagnetic calorimeter. *Nucl. Instrum. Meth. Phys. Res. A 295*, 73–80.

Hofstadter, R. (1963). *Electron Scattering and Nuclear and Nucleon Structure*. New York: W. A. Benjamin, Inc.

Jacob, M. and G. C. Wick (1959). On the General Theory of Collisions for Particles with Spin. *Ann. Phys. 7*, 404–428.

Kroll, P., T. Pilsner, M. Schürmann, and W. Schweiger (1993). On exclusive reactions in the time-like region. *Phys. Lett. B 316*, 546–554.

Lepage, G. P. and S. J. Brodsky (1980). Exclusive processes in perturbative quantum chromodynamics. *Phys. Rev. D 22*(9), 2157–2198.

McAllister, R. W. and R. Hofstadter (1956). Elastic Scattering of 188-Mev Electrons from the Proton and the Alpha Particle. *Phys. Rev. 102*(3), 851–856.

Patrignani, C. (1997?). J/ψ inclusive selection using the Electron Weight. Fermilab E-835 Internal Note, unpublished.

Patrignani, C. (1998). Private communication.

Pedlar, T. K. (1998, September). Elements of Precision: Luminosity Measurement in E835. Fermilab E-835 Internal Note, unpublished.

Petroff, M. D. and M. Atac (1989). High energy particle tracking using scintillating fibers and solid state photomultipliers. *IEEE Trans. Nucl. Sci. 36*(1), 163–164.

Rosenbluth, M. N. (1950). High Energy Elastic Scattering of Electrons on Protons. *Phys. Rev. 79*(4), 615–619.

Ruchti, R. C. (1996). The Use of Scintillating Fibers for Charged-Particle Tracking. *Annu. Rev. Nucl. Part. Sci. 46*, 281–319.

Salzman, G. (1955). Neutron-Electron Interaction. *Phys. Rev. 99*(3), 973–979.

Sill, A. F. et al. (1993). Measurements of elastic electron-proton scattering at large momentum transfer. *Phys. Rev. D 48*(1), 29–55.

Sterman, G. and P. Stoler (1997). Hadronic Form Factors and Perturbative QCD. *Annu. Rev. Nucl. Part. Sci. 47*, 193–233.

Trokenheim, S., M. Sarmiento, K. K. Seth, and L. Bartoszek (1994). A $p\bar{p}$ luminosity monitor for Fermilab experiment E760. *Nucl. Instrum. Meth. Phys. Res. A 355*, 308–319.

Walker, R. C. et al. (1994). Measurements of the proton elastic form factors for $1 \leq Q^2 \leq 3\ (\mathrm{GeV}/c)^2$ at SLAC. *Phys. Rev. D 49*(11), 5671–5689.

Yennie, D. R., M. M. Lévi, and D. G. Ravenhall (1957). Electromagnetic Structure of Nucleons. *Rev. Mod. Phys. 29*(1), 144–157.

Zichichi, A. et al. (1962). Proton-Antiproton Annihilation into Electrons, Muons and Vector Bosons. *Nuovo Cimento XXIV*(1), 170–180.