

Hermann Wellenstein

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Education

- 1971 Ph.D., University of Texas, Austin
- 1966 B.Sci., University of London
- 1962 GCE, North-West College of Technology, Dartford, England
- 1958 M.R.C., Adam Gymnasium Munich

Professional Positions

- 1978–present Associate Professor, Brandeis University
- 1973–1978 Assistant Professor, Brandeis University
- 1980–1982 Postdoctoral Fellow, Indiana University
- 2000 Visiting Professor, University of Munich
- 1998 Senior Research Fellow, Max Planck Institutue, Munich
- 1988 Visiting Associate Professor, University of Texas
- 1980–1981 Maitre de Recherch Associe, Universite Paris-SUD
- 1976–1977 Professor Associe, Universite Paris-SUD
- 1972–1973 Visiting Professor, Universade de Sao Paulo, Brasil

Selected Professional Activities

- 2002 Site Verification Committee, Muon System, ATLAS LHC

Experimental Collaborations

- 1993–present ATLAS at CERN
- 2007–present DMTPC - Dark Matter Time Projection Chamber

1990–1993 SDC at SSC
 1988–2007 Neutrino Rest Mass Collaboration

Students Advised

Wolfgang Rueckner (PhD 1982)
 Dilak Barlas (PhD 1984)

Selected Publications

First Dark Matter Search Results from a Surface Run of the 10-L DMTPC Directional Dark Matter Detector, DMTPC Collaboration, arXiv:1006.2928v3 [hep-ex], Phys. Lett. **B695**, 124-129 (2011).

DMTPC: Dark matter detection with directional sensitivity, DMTPC Collaboration, arXiv:1012.3912v1 [astro-ph.IM], to be published as part of conference proceedings for Identification of Dark Matter 2010, Montpellier, France.

Background Rejection with the DMTPC Dark Matter Search Using Charge Signals, DMTPC collaboration, submitted to NIM.

Observation of the “head–tail” effect in nuclear recoils of low–energy neutrons, DMTPC Collaboration, Nucl. Instrum. Meth. **A584**, 327-333 (2008).

Assembly of MDT Chambers, Atlas Internal Note, Muon No. 71-1999.

A New Positron Source with High Flux and Excellent Electron Optical Properties, with Manfred Fink, Scott Nguyen, Nucl. Instrum. and Meth. **B432**, 168-583 (2007).

Mapping the Large Area Straw Detectors of the COMPASS Experiment with X-rays, with Klaus Platzner, Wolfgang Dnnweber, Nicolas Dedek, Martin Faessler, Reiner Geyer, Christoph Ilgner, Vladimir Peshekhonov, IEEE Trans.Nucl.Sci., **52**, 793 (2005)

Proposal to Isolate the Origin of the 17 keV Kink in the β Spectrum, with S.

Cook, S. Thomas, and M. Fink, Phys. Rev. D**46**, R6 (1992).

High Energy Electron Impact Spectrometer for Absolute Triple Differential Cross-Section, with A. L.-Bennani, A. Duguet and M. Lecas, Rev. Sci. Instr. **56**, 43 (1985).

Recent Conference Talks and Seminars/Colloquia

Rejection of Backgrounds in the DMTPC Dark Matter Search Using Charge Signals, DPF2011: Division of Particles and Fields of the American Physical Society, August 9-13, 2011, Brown University, Rhode Island.

Status and Prospects of the DMTPC Directional Dark Matter Experiment, PANIC2011, 19th Particles and Nuclei International Conference, July 24-29, 2011, MIT, Massachusetts.

Status of the DMTPC Experiment, CYGNUS2011, 3rd Workshop on directional detection of Dark Matter, June 7 - 10, 2011 Aussois, France.

DMTPC R&D, CYGNUS2011, 3rd Workshop on directional detection of Dark Matter, June 7 - 10, 2011 Aussois, France.

Rejection of Backgrounds in the DMTPC Dark Matter Search Using Charge Signals, TIPP2011: Technology and Instrumentation in Particle Physics 2011, June 9 - 14, 2011, Chicago, Illinois.

A new approach to directional detection of neutrons and dark matter, TIPP: Technology and Instruments in Particle Physics, Tokyo, March 2009.

The Neutrino Mass Experiment, NEXTEX, Neutrino Conference in Santa Fe, June 2006.

Neutrino Mass Experiment at The University of Texas at Austin, NEXTEX, Neutrino Tagung, Bad Honnef, Germany, 2006.