

Clemens A. Heusch

Professor of Physics

d. April 6, 2015

From Clemens August Heusch's webpage:

Dr. rer. nat., Technical University Munich, Germany, 1959

[Cumulative Bio-Bibliography](#)

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Research Interests

Clemens A. Heusch has had a long involvement with deeply inelastic muon-nucleon scattering, co-discovering the "EMC effect" and the "spin crisis" at CERN. This program, now in its final analysis stage, finds its continuation in electron-nucleon scattering at HERA, with the ZEUS experiment - where we concentrate on lepton flavor violation searches. For the ATLAS detector at CERN, he has been involved in cooling procedures for the vertex detector assemblies, measuring thermal conduction in pyrolytic graphite materials. In preparation of BaBar running, he is studying dileptonic final state distributions as possible signals of new physics phenomena. He is spending a good fraction of his efforts on Linear Electron Collider work - specifically on its e-e- configuration. Physics motivation, accelerator realization, and detector features are being followed closely by an international working party he has been coordinating for years.

Collaboration Involvement: [ZEUS](#), [ATLAS](#), [BaBar](#), [NLC](#)

Selected Publications

Direct Measurement of the Thermal Conductivity of Various Pyrolytic Graphite Samples, C.A. Heusch, A. Kholodenko, H.G. Moser, submitted to *Nucl. Inst. Methods* (2000).

Can Heavy Majorana Neutrinos Be Found in TeV Electron--Electron Scattering? The

Nuclear Connection, C.A. Heusch, *Nucl. Phys.* **A629**, 545c (1998).

The Trouble With Inverse Neutrinoless Beta Decay, C.A. Heusch, *Int. J. Mod. Phys.* **A13**, 2383 (1998).

e-e- 97: A Progress Report on the Electron-Electron Collider Front, C.A. Heusch, *ibidem*, p. 2217.

Search for Lepton Flavor Violation in ep Collisions, ZEUS Collaboration, *Z. Phys.* **C73**, 613 (1997).

Electron-Electron Scattering at TeV Energies: An Integral Part of any Linear Collider Program, C.A. Heusch, *Int. J. Mod. Phys.* **A11**, 1 (1996).

Lepton Flavour Violation Induced by Heavy Majorana Neutrinos, C.A. Heusch and P. Minkowski, *Nucl. Phys.* **B416**, 3 (1994).

A Strategy for Discovering Heavy Neutrinos, C.A. Heusch and P. Minkowski, *Phys. Lett.* **B374**, 116 (1996).

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Volume 75, Number 3: Information for Students, 1966-1967

Clemens August Heusch, Dr.rer.nat., *Senior Research Fellow in Physics*

Dipl. Phys., Technische Hochschule, Aachen. 1955; Dr.rer.nat., Technische Hochschule,

Munich, 1959. Research Fellow, California Institute, 1963-65; Senior Research Fellow, 1965-

(102 Syn- chrotron) 522 South Allen Avenue.

A-6—Sunday, July 8, 1990 — Santa Cruz Sentinel

Education digest

UCSC professor earns research award

Professor Clemens Heusch, an experimental particle physicist at UC Santa Cruz, is one of five physicists in the United States and some 100 scientists worldwide to receive a 1990-91 Humboldt Research Award from the Alexander von Humboldt Foundation of the Federal Republic of Germany. The award entitles him to work jointly with researchers from Germany during the upcoming academic year. Heusch plans to do particle physics research for nine months with scientists from the University of Munich at the European Center for Nuclear Research in Geneva, Switzerland. He will also be a visiting professor at the University of Munich.

Heusch

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sstevens

Tue, Dec 6, 2016

From the Fall 1968 Bowdoin Alumni magazine

Clemens Heusch was married this past summer to Karin von Gilgenheimb. He spent the summer in Europe lecturing in Germany and Italy.