

## Biographical Sketch of Carl Rosenfeld

Department of Physics and Astronomy, University of South Carolina, Columbia

Personal	Born - Baltimore, Maryland, December 25, 1944.
Education	Massachusetts Institute of Technology, S.B. with major in physics, 1966. California Institute of Technology, Ph.D., 1977.
Positions held	1995 - present: Professor, University of South Carolina 1986 - 1995: Associate Professor, University of South Carolina. Tenured, 1990. 1991: MONBUSHO Visiting Scientist, National Laboratory for High Energy Physics (KEK), Tsukuba, Japan. 1984 - 1986: Visiting Senior Research Associate, University of Rochester. 1984 - 1985: Assistant Professor - Research, Louisiana State University. 1981 - 1984: Senior Research Associate, University of Rochester. 1977 - 1981: Research Associate, University of Rochester.
Professional memberships	American Physical Society (including DPF and DPB).
Honors and Awards	US Department of Energy Outstanding Junior Investigator, 1986.

Graduate advisor: Prof. C.W. Peck, Caltech.

Principal postdoctoral sponsor: Prof. E.H. Thorndike, University of Rochester.

Graduate students supervised: S. Lusin, S.R. Wilson, and L. Zheng.

Recent postdoctoral associates: A. Godley and T. Bergfeld.

Tally of all postdoctoral associates: 4.

Brief research history: At Caltech I wrote a thesis on proton diffraction-dissociation by pions at 14 GeV under the supervision of C.W. Peck. This experiment used SLAC's 40 in rapid-cycling bubble chamber in a hybrid mode with a trigger on the camera. At the University of Rochester I worked in E.H. Thorndike's group, which contributed the muon identification system to the CLEO detector. I was the primary author of a paper that ruled out several classes of exotic decay modes of the  $b$  quark using CLEO data. I also wrote a paper with S.H.H. Tye in 1984 proposing the sqarkonium interpretation of the "short-lived"  $\zeta(8.3)$ . The one year that I spent with LSU (in residence at Rochester) was dedicated to AMY construction work. Until 1995 my principal research focus at South Carolina was the AMY experiment. USC designed and commissioned most of AMY's original trigger system and upgraded this system in 1991. Two of my doctoral students used AMY data to study  $\gamma$ - $Z$  interference in the reactions  $e^+e^- \rightarrow \mu^+\mu^-$ ,  $e^+e^- \rightarrow \tau^+\tau^-$ , and  $e^+e^- \rightarrow c\bar{c}$ . I was a participant in the DONUT Collaboration, which published the first observation of the transition of a tau neutrino to a charged tau lepton. Currently I am participating in the MINOS, MIPP, NO $\nu$ A, and Cuoricino collaborations.

Publications Co-authored by Carl Rosenfeld  
Department of Physics and Astronomy, University of South Carolina, Columbia

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