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## Biographical Sketch

### Education

1959–1963: Ph.D. in Physics, Columbia University, New York

1955–1959: B.A. in Physics, Columbia University, New York

### Academic Appointments

1973–present: Professor, University of Colorado, Boulder, Colorado

1969–1973: Associate Professor, University of Colorado, Boulder, Colorado

1964–1969: Assistant Professor, Princeton University, Princeton, New Jersey

1963–1964: Instructor, Princeton University, Princeton, New Jersey

### Honors and Awards

1973: Fellow, American Physical Society.

1974: Outstanding Physics Professor Award.

1981: Outstanding Physics Professor Award.

1983: Outstanding Physics Professor Award.

1984: Awarded Faculty Fellowship.

1991: Elected to SSC Board of Overseers.

1994: Awarded Faculty Fellowship.

1998: Chosen to the DOE Enrico Fermi Award Panel.

2001-2003: Elected as Boulder Faculty Assembly Chair.

2004: Recipient of the Highest Research/Teaching Honor at the University of Colorado in Boulder.  
The Hazel Barnes Prize.

### Selected Publications

During the past three years (since May 2003) I have been an author on many BaBar, International Linear Collider and a few SLD publications. The publications listed below represent papers published in the last three years in which I played a significant role.

1. (ILC Collaboration), *The role of Polarized positrons and electrons in revealing the fundamental interactions at the Linear Collider*, Gudrig Moortgat Pick et. al. **CERN-PH-TH/2005-036, DCPT-04-100, Fermilab-PUB-05-060-T, IPPP-04-50, KEK-Preprint2005-16, PRL-TH-05/01, SHEP-05-03, SLAC-PUB-11087, hep-ph/0507011.**

2. (ILC Collaboration), *Supersymmetry Parameters Analysis:SPA Convention and Project J*. A. Saavedra et. al. (Unpublished).
3. (ILC Collaboration), *The Snowmass Points and Slopes: Benchmark for SUSY Searches* B.C. Allenach et. al. **Euro-Phys. J.C.**25,113 (2002).
4. (ILC Collaboration), *Sfermion Precision Measurements at a Linear Collider* A. Freitas et. al. **hep-ex/0112017**.
5. (Colorado ILC Group), *Numerous papers written by my students working on ILC Supersymmetry Simulations..* See <http://hep-www.colorado.edu/SUSY>.
6. (BaBar Collaboration), *A Determination of the Branching Ratio of  $B \rightarrow \psi(2S)K_S$* . In Collaboration with Alex Olivas, Shenjian Chen, Jinlong Zhang. **B.A.D.**# 823.
7. (BaBar Collaboration), *Development of a better  $\pi^0$  List using sequential momentum range analysis.*In Collaboration with William Ruddick. Shenjian Chen, Jinlong Zhang. **B.A.D.**# 741.
8. (SLD Collaboration), *Measurement of the branching ratios of the  $Z^0$  into heavy quarks.***Phys. Rev. D.**71, 112003 (2005).
9. (BaBar Collaboration), *Measurement of CP Asymmetries in  $B^0 \rightarrow \phi K^0$  and  $B^0 \rightarrow K^+ K^- K^0$  decays.***Phys. Rev. D71 Rapid Communications.** 091102 (2005).
10. (BaBar Collaboration) *Measurement of  $V_{ub}$  using the exclusive decays  $B^\pm \rightarrow \omega(\rho), l, \nu$ .* To be published.
11. (Babar Collaboration) *Measurement of the CP angle  $\gamma$  using  $B \rightarrow D^0 \pi^+ \pi^- \pi^0$ .* To be published.

## Conference/Colloquium Talks

1. I have given numerous talks at the Internal Linear Conferences throughout the last 3 years. They all dealt with the problems and detector resolution in observing Supersymmetry signals in the Linear Collider and also with our studies of the electromagnetic/hadronic calorimeter design we proposed for an ILC detector. We were the first group to point out the difficulty that the 2 photon signal would cause in the measurement of the masses of Supersymmetric particles. In addition, my Post-Doctoral research Associates have given talks that I indicate below.
2. April 2006, Colloquium, Colorado State University. The Linear Collider Project.
3. October 23-29, 2005, IEEE Nuclear Science Symposium and medical Imaging Conference, Puerto Rico. An integrated front-end readout and feature extraction system for the babar Drift Chamber. Talk given by Jinlong Zhang, a research associate in our group.
4. April 22-25, 2006, APS April meeting in Dallas. Measurement of Exclusive  $B \rightarrow X_u l \nu$  branching fractions using semileptonic tags. Talk given by Shenjian Chen, a research associate in our group.
5. In July 2006, I will give a seminar on BaBar results at DESY-Zeuthen