

# Curriculum Vitae

John M. LoSecco

## Born:

October 21, 1950, New York, N.Y.

## Education:

The Bronx High School of Science, 1968

The Cooper Union School of Engineering and Science,  
B.S., Physics, *summa cum laude*, 1972

Harvard University Graduate School of Arts and Science,  
A.M., Physics, 1973  
Ph.D., Physics, 1976

Thesis (theory): Topics in Weak Interaction Phenomenology.  
(advisors: S. Coleman and S. Weinberg)

## Experience:

Professor of Physics, University of Notre Dame: September 1991 - present. Associate Professor of Physics, September 1985 - September 1991. Research on meson spectroscopy, proton antiproton collisions at 1.8 Tev, non-accelerator high energy physics. Teaching graduate and undergraduate courses.

Assistant Professor of Physics, California Institute of Technology: September 1981 - August 1985. Research on proton decay, neutrino mass and PP collider experiments. Taught primarily sophomore physics: Waves, Introductory Quantum Mechanics and Statistical Mechanics.

Assistant Research Scientist, University of Michigan: October 1979 - September 1981.  
Research on neutrino oscillations and proton decay. Taught freshman physics.

Research Associate, Harvard University High Energy Physics Lab: June 1976 - September 1979. (with C. Rubbia). Research on neutrino scattering, beam dump experiments, liquid argon TPC, neutrino oscillations, reactor antineutrino electron scattering and PP collider design.

Research Assistant, The Albert Einstein College of Medicine: June 1968 – August 1972, summer 1975. Medical research, primarily the analysis of experiments. Worked in neurology, audiology, anatomy, environmental epidemiology and biophysics.

Systems Programmer, International Systems Associates Ltd., September 1969 – December 1969.  
Wrote a time sharing operating system for the PDP-8.

**Current Research Interests:**

CP Violation in B Meson Decays, Heavy Flavor Physics

Meson Spectroscopy, Tests of QCD

Non-Accelerator Neutrino Physics and Neutrino Astrophysics

**Other Information:**

Particle Data Group Advisory Panel (LBL and CERN) 1996-2001

U.S. D.O.E. Outstanding Junior Investigator 1982,1983,1984,1985

Co-recipient 1989 Rossi Prize for High Energy Astrophysics of the American Astronomical Society

Cottrell Research Grant for “A Search for Extraterrestrial Neutrino Bursts” in 1982

Member of the American Physical Society

Founder and Faculty Advisor to the Caltech Society of Physics Students (1981-1985)

Publications

John M. LoSecco  
 Notre Dame  
 September, 1985-Present

## Journal Articles

- B. Aubert *et al.* [BaBar Collaboration], “Search for Lepton Flavour Violating Decays  $\tau \rightarrow \ell K_S^0$  with the BaBar Experiment,” *Phys. Rev. D* **79**, 012004 (2009).
- J.M. LoSecco, “Muon Oscillations,” arXiv:0902.2752 [hep-ph] UNDPDK-090208 (2009).
- B. Aubert *et al.* [BaBar Collaboration], “Measurements of the Semileptonic Decays  $B \rightarrow D \ell \nu$  and  $B \rightarrow D^* \ell \nu$  Using a Global Fit to  $DX \ell \nu$  Final States,” *Phys. Rev. D* **79**, 012002 (2009)
- B. Aubert *et al.* [BaBar Collaboration], “Branching Fractions and CP-Violating Asymmetries in Radiative B Decays to eta K gamma,” *Phys. Rev. D* **79**, 011102 (2009).
- P. Eugenio *et al.* [E852 Collaboration], “Observation of the pi(1800) and pi2(1880) mesons in eta eta pi- decay,” *Phys. Lett. B* **660**, 466 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the Branching Fractions of the Radiative Charm Decays  $D^0 \rightarrow \bar{K}^{*0} \gamma$  and  $D^0 \rightarrow \phi \gamma$ ,” *Phys. Rev. D* **78**, 071101 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurements of time-dependent CP asymmetries in  $B_0^- \rightarrow D^{(*)} + D^{(*)-}$  decays,” arXiv:0808.1866 [hep-ex] SLAC-PUB-13327 (2008) *Presented at 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Update of Time-Dependent CP Asymmetry Measurements in  $b \rightarrow c \bar{c} s$ ,” arXiv:0808.1903 [hep-ex] SLAC-PUB-13324 (2008) *Presented at 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of Branching Fractions and CP and Isospin Asymmetries in  $B \rightarrow K^* \gamma$ ,” arXiv:0808.1915 [hep-ex] SLAC-PUB-13367 (2008) *Contributed to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the  $B^+ \rightarrow \omega 1^+ \nu$  and  $B^+ \rightarrow \eta 1^+ \nu$  Branching Fractions,” arXiv:0808.3524 [hep-ex] SLAC-PUB-13343 (2008) (Submitted to *Phys. Rev. D*)
- B. Aubert *et al.* [BaBar Collaboration], “Time-dependent and time-integrated angular analysis of  $B \rightarrow \phi K_X^0 \pi^0$  and  $\phi K^\pm \pi^\mp$ ,” arXiv:0808.3586 [hep-ex] SLAC-PUB-13337 (2008) (Submitted to *Physical Review D*)

- B. Aubert *et al.* [BaBar Collaboration], “Evidence for  $X(3872) \rightarrow \psi(2S) \gamma$  in  $B^{+/-} \rightarrow X(3872) K^{+/-}$  decays, and a study of  $B \rightarrow c\bar{c} \gamma K$ ,” arXiv:0809.0042 [hep-ex] SLAC-PUB-13375 (2008) (Submitted to Phys. Rev. Lett.)
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of time dependent CP asymmetry parameters in  $B^0$  meson decays to  $\omega K^0_S$ ,  $\eta' K^0$ , and  $\pi^0 K^0_S$ ,” arXiv:0809.1174 [hep-ex] SLAC-PUB-13380 (2008) (Submitted to Phys. Rev. D)
- B. Aubert *et al.* [BaBar Collaboration], “A Search for  $B^+ \rightarrow \ell^+ \nu_\ell$  Recoiling Against  $B^- \rightarrow D^0 \ell^- \bar{\nu}_X$ ,” arXiv:0809.4027 [hep-ex] SLAC-PUB-13300 (2008) *Contributed to 5<sup>th</sup> International Workshop on the CKM Unitarity Triangle (CKM 2008), Rome, Italy, 9-13 Sep 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the  $e^+e^- \rightarrow b$  anti- $b$  cross section between  $\sqrt{s}=10.54$  and  $11.20$  GeV,” arXiv:0809.4120 [hep-ex] SLAC-PUB-13397 (2008)
- B. Aubert *et al.* [BaBar Collaboration], “Study of the  $\pi^+\pi^- J\psi$  Mass Spectrum via Initial-State Radiation at BaBar,” eprint arXiv:0808.1543 Publication Date: 08/2008.
- B. Aubert *et al.* [BaBar Collaboration], “Observation of  $B_0 \rightarrow x_c^0 K^{*0}$  and evidence for  $B^+ \rightarrow x_c^0 K^{*+}$ ,” Phys. Rev. D **78**, 091101 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Study of the  $\pi^+\pi^- J / \psi$  Mass Spectrum via Initial-State Radiation at BABAR,” arXiv:0808.1543 [hep-ex] SLAC-PUB-13360 (2008) *Contributed to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurements of Branching Fractions for  $B^+ \rightarrow \rho^+ \gamma$ ,  $B^0 \rightarrow \rho^0 \gamma$ , and  $B^0 \rightarrow \omega \gamma$ ,” Phys. Rev. D **78**, 112001 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Search for  $B \rightarrow K^* \nu \bar{n} u$  decays,” Phys. Rev. D **78**, 072007 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Search for the highly suppressed decays  $B^- \rightarrow K^+ \pi^- \pi^-$  and  $B^- \rightarrow K^- K^- \pi^+$ ,” Phys. Rev. D **78**, 091102 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Dalitz Plot Analysis of  $D_s^+ \rightarrow \pi^+ \pi^- \pi^+$ ,” arXiv:0808.0971 [hep-ex] BABAR-CONF-08-002 (2008) *Contributed to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the Branching Fractions of  $\bar{B} \rightarrow D^{**} l^- \bar{\nu}_l$  decays in Events Tagged by a Fully Reconstructed B Meson,” Phys. Rev. Lett. **101**, 261802 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Search for  $B^+$  meson decays to  $a_1^+ K^{*0}$ ,” arXiv:0808.0579 [hep-ex] SLAC-PUB-13346 (2008) *Submitted to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*

- B. Aubert *et al.* [BaBar Collaboration], “Measurement of CP-Violating Asymmetries in the  $B^0 \rightarrow K^+K^-K_S$  Dalitz Plot,” arXiv:0808.0700 [hep-ex] SLAC-PUB-13353 (2008) *Submitted to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the Branching Fraction, Polarization, and CP Asymmetries in  $B \rightarrow \rho\rho$  Decay, and Implications for the CKM Angle  $\alpha$ ,” Phys. Rev. D **78**, 071104 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of  $-V_{cb}$  – and the form-factor slope for  $B_{\text{bar}} \rightarrow D^- 1^- \text{ nubar}_l$  decays on the recoil of fully reconstructed B mesons,” arXiv:0807.4978 [hep-ex] SLAC-PUB-13334 (2008) *To appear in the proceedings of 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Search for Invisible Decays of a Light Scalar in Radiative Transitions  $Upsilon(3S) \rightarrow \text{gamma } A_0$ ,” arXiv:0808.0017 [hep-ex] SLAC-PUB-13328 (2008) *Submitted to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the color-suppressed decays anti- $B^0 \rightarrow D^{(*)0} \pi^0 / \omega / \eta / \eta'$  branching fractions,” arXiv:0808.0697 [hep-ex] SLAC-PUB-13347 (2008) *To appear in the proceedings of 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the branching fraction  $B(\tau^- \rightarrow K^0 \pi^- \nu)$  using the BaBar detector,” arXiv:0808.1121 [hep-ex] SLAC-PUB-13350 (2008) *Contributed to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Evidence for B semileptonic decays into the charmed baryon  $\Lambda_c^+$ ,” arXiv:0808.0011 [hep-ex] SLAC-PUB-13335 (2008) *Submitted to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* (BaBar Collaboration), “Measurement of Semileptonic B Decays into Orbitally-Excited Charmed Mesons,” arXiv:0808.0444 [hep-ex] BABAR-PUB-08-043 (2008) (Submitted to Physical Review Letters)
- B. Aubert *et al.* [BaBar Collaboration], “Measurements of  $\beta(B^0 \rightarrow \Lambda_c^+ \bar{p})$  and  $\beta(B^- \rightarrow \Lambda_c^+ \bar{p} \pi^-)$  and Studies of  $\Lambda_c^+ \pi^-$  Resonances,” Phys. Rev. D **78**, 112003 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of  $B \rightarrow X\gamma$  Decays and Determination of  $|V_{td}/V_{ts}|$ ,” arXiv:0807.4975 [hep-ex] SLAC-PUB-13340 (2008) (Submitted to Physical Review Letters) *Presented at 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Searches for B meson decays to  $\phi\phi, \phi\rho, \phi f_{\text{zero}}(980)$ , and  $f_{\text{zero}}(980) f_{\text{zero}}(980)$  final states,” Phys. Rev. Lett. **101**, 201801 (2008).

- B. Aubert *et al.* [BaBar Collaboration], “Direct CP, Lepton Flavor and Isospin Asymmetries in the Decays  $B \rightarrow K(^*)1+1-$ ,” arXiv:0807.4119 [hep-ex] BABAR-PUB-08-022 (2008) (Submitted to Phys. Rev. Lett.)
- B. Aubert *et al.* [BaBar Collaboration], “Search for  $B_{+-} \rightarrow \mu^+ \nu_\mu$  with inclusive reconstruction at BaBar,” arXiv:0807.4187 [hep-ex] BABAR-CONF-08-001 (2008) *Presented at 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of CP Asymmetries and Branching Fractions in  $B^0 \rightarrow \pi^+ \pi^-$ ,  $B^0 \rightarrow K^+ \pi^-$ ,  $B^0 \rightarrow \pi^0 \pi^0$ ,  $B^0 \rightarrow K^0 \pi^0$  and Isospin Analysis of  $B \rightarrow \pi \pi$  Decays,” arXiv:0807.4226 [hep-ex] BABAR-CONF-08-014 (2008) *Presented at 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of  $D^0$ - $D^0$ bar mixing from a time-dependent amplitude analysis of  $D^0 \rightarrow K^+ \pi^- \pi^0$  decays,” arXiv:0807.4544 [hep-ex] BABAR-PUB-08-026 (2008) (Submitted to Physical Review Letters)
- B. Aubert *et al.* [BaBar Collaboration], “Amplitude Analysis of the Decay  $B^0 \rightarrow K^+ \pi^- \pi^0$ ,” arXiv:0807.4567 [hep-ex] BABAR-PUB-13331 (2008) *Presented at 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of branching fractions of  $B^0$  decays to  $K_1(1270) + \pi^-$  and  $K_1(1440) + \pi^-$ ,” arXiv:0807.4760 [hep-ex] BABAR-PUB-13330 (2008) *Presented at 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Search for Second-Class Currents in  $\tau^- \rightarrow \omega \pi^- \nu_\tau$ ,” arXiv:0807.4900 [hep-ex] SLAC-PUB-13339 (2008) *Contributed to 34<sup>th</sup> International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul – 5 Aug 2008*
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of Time-Dependent CP Asymmetry in  $B^0 \rightarrow K_S \pi^0 \gamma$  Decays,” Phys. Rev. D **78**, 071102 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of Ratios of Branching Fractions and CP-Violating Asymmetries of  $B \rightarrow D^* K$  Decays,” Phys. Rev. D **78**, 092002 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Study of hadronic transitions between Y states and observation of  $Y(4S) \rightarrow \eta Y(1S)$  decay,” Phys. Rev. D **78**, 112002 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Study of the decay  $D_s^+ \rightarrow K^+ K^- e + \nu$ ,” Phys. Rev. D **78**, 051101 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Observation of the bottomonium ground state in the decay  $Y(3S) \rightarrow \gamma \eta_b$ ,” Phys. Rev. Lett. **101**, 071801 (2008).

- B. Aubert *et al.* [BaBar Collaboration], “Search for  $B^0 \rightarrow K^{*+}K^{*-}$ ,” Phys. Rev. D **78**, 051103 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Observation and Polarization Measurements of  $B^\pm \rightarrow \phi K_1^\pm$  and  $B^\pm \rightarrow \phi K_2^{*\pm}$ ,” Phys. Rev. Lett. **101**, 161801 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Observation of  $e^+e^- \rightarrow \rho^+\rho^-$  near  $\sqrt{s} = 10.58$  GeV,” Phys. Rev. D **78**, 071103 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “A Measurement of CP Asymmetry in  $b \rightarrow s\gamma$  using a Sum of Exclusive Final States,” Phys. Rev. Lett. **101**, 171804 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurements of  $B^- \rightarrow (\pi, \eta, \eta')lv$  Branching Fractions and Determination of  $|V_{ub}|$  with Semileptonically Tagged B Mesons,” Phys. Rev. Lett. **101**, 081801 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Observation of  $B^+ \rightarrow b_1^+K^0$  and search for  $B^-$  meson decays to  $b_1^0K^0$  and  $b_1^0\pi^0$ ,” Phys. Rev. D **78**, 011104 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the CKM angle  $\gamma$  in  $B^0 \rightarrow \bar{b}D^0(D^0)k^{*0}$  with a Dalitz analysis of  $D^0 \rightarrow K_S \pi^+ \pi^-$ ,” arXiv:0805.2001 [hep-ex] BABAR-PUB-07-072 (2008) (Submitted to Phys. Rev. D)
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the Mass Difference  $m(B^0) - m(B^+)$ ,” Phys. Rev. D **78**, 011103 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Observation of  $B \rightarrow \eta\rho^+$  and search for  $B^0 \rightarrow \eta'\eta, \eta\pi^0, \eta'\pi^0, \omega\pi^0$ ,” Phys. Rev. D **78**, 011107 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Angular Distribution in the Decays  $B \rightarrow K^{*1+1-}$ ,” arXiv:0804.4412 [hep-ex] SLAC-PUB-13133 (2008) (Submitted to Phys. Rev. Lett.)
- B. Aubert *et al.* [BaBar Collaboration], “Improved measurement of the CKM angle  $\gamma$  in  $B^\pm \rightarrow D^*K^{(*)\pm}$  decays with a Dalitz plot analysis of  $D \rightarrow K_S^0\pi^+\pi^-, K_S^0K^+K^-$ ,” Phys. Rev. D **78**, 034023 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Study of  $B^- \rightarrow \eta_c K^{(*)}, \eta_c(2S)K^{(*)}$  and  $\eta_c\gamma K^{(*)}$ ,” Phys. Rev. D **78**, 012006 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Evidence for CP violation in  $B^0 \rightarrow \psi\pi^0$  decays,” Phys. Rev. Lett. **101**, 021801 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Study of B Meson Decays with Excited  $\eta$  and  $\eta'$  Mesons,” Phys. Rev. Lett. **101**, 091801 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Evidence for Direct CP Violation from Dalitz-plot analysis of  $B^\pm \rightarrow K^\pm\pi^\pm\pi^\mp$ ,” Phys. Rev. D **78**, 012004 (2008).

- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the Branching Fractions of the Rare Decays  $B^0 \rightarrow Ds(*) + \pi^-$ ,  $B^0 \rightarrow Ds(*) + \rho^-$ , and  $B^0 \rightarrow Ds(*) - K(*) +$ ,” Phys. Rev. D **78**, 032005 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “A study of  $B \rightarrow X(3872)K$ , with  $X(3872) \rightarrow \psi\pi^+\pi^-$ ,” Phys. Rev. D **77**, 111101 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the Spin of the  $Xi(1530)$  Resonance,” Phys. Rev. D **78**, 034008 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the  $\tau \rightarrow 3\pi\eta\nu$  Branching Fraction and a Search for a Second-Class Current in the  $\tau \rightarrow \eta'(958)\pi\nu$  Decay,” Phys. Rev. D **77**, 112002 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of CP observables in  $B^- \rightarrow D_{CP}^0 K^-$  decays,” Phys. Rev. D **77**, 111102 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Search for CP Violation in Neutral D Meson Cabibbo-suppressed Three-body Decays,” Phys. Rev. D **78**, 051102 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Searches for the decays  $B^0 \rightarrow l + \tau^-$  and  $B^+ \rightarrow l + \nu(l = e, \mu)$  using hadronic tag reconstruction,” Phys. Rev. D **77**, 091104 (2008).
- B. Aubert *et al.* [BaBar Collaboration], Study of the Exclusive Initial-State-Radiation Production of the D $\bar{D}$  System,” arXiv:0710.1371 [hep-ex], SLAC-PUB-12818 (2008) (Submitted to Phys. Rev. D)
- B. Aubert *et al.* [BaBar Collaboration], “A Measurement of the Branching Fractions of exclusive  $\bar{B} \rightarrow D(*)\pi l - \bar{\nu}$  Decays in Events with a Fully Reconstructed B Meson,” Phys. Rev. Lett. **100**, 151802 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of the Decay  $B^- \rightarrow D^{*0} e^- \bar{\nu}$ ,” Phys. Rev. Lett. **100**, 231803 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Time-dependent Dalitz plot analysis of  $B^0 \rightarrow D^{-(+)} K^0 \pi^{+(-)}$  decays,” Phys. Rev. D **77**, 071102 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurement of  $D^0 \bar{D}^0$  Mixing using the Ratio of Lifetimes for the Decays  $D^0 \rightarrow K^- \pi^+, K^- K^+, \pi^- \pi^+$ ,” Phys. Rev. D **78**, 011105 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Search for decays of B $^0$  mesons into  $e^+ e^-, \mu^+ \mu^-$  and  $e^\pm \mu^{\mp/+}$  final states,” Phys. Rev. D **77**, 032007 (2008)
- B. Aubert *et al.* [BaBar Collaboration], “Spectrum using the Recoil Method,” Phys. Rev. D **77**, 051103 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Dalitz Plot Analysis of the Decay  $B^0(B^0\text{bar}) \rightarrow K^\pm \pi^\mp \pi^0$ ,” Phys. Rev. D **78**, 052005 (2008).

- B. Aubert *et al.* [BaBar Collaboration], “Search for CPT and Lorentz Violation in  $B^0 - \bar{B}^0$  Oscillations with Dilepton Events,” Phys. Rev. Lett. **100**, 131802 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Observation of  $Y(3940) \rightarrow \psi\omega$  in  $B \rightarrow \psi\omega K$  at BaBar,” Phys. Rev. Lett. **101**, 082001 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Search for Lepton Flavor Violating Decays  $\tau^\pm \rightarrow l^\pm\omega$  ( $l = e, \mu$ ),” Phys. Rev. Lett. **100**, 071802 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “A study of  $\bar{B} \rightarrow Xi_c \Lambda_c^-$  and  $\bar{B} \rightarrow \Lambda_c^+ \Lambda_c^- \bar{K}$  decays at BaBar,” Phys. Rev. D **77**, 031101 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “A Study of Excited Charm-Strange Baryons with Evidence for new Baryons  $\Xi_c(3055)^+$  and  $\Xi_c(3123)^+$ ,” Phys. Rev. D **77**, 012002 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurements of  $e^+e^- \rightarrow K^+K^-\eta, K^+K^-\pi^0$  and  $K_S K^+ \pi^-$  Cross Sections Using Initial State Radiation Events,” Phys. Rev. D **77**, 092002 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Study of the Exclusive Initial-State-Radiation Production of the DDbar System,” arXiv:0710.1371 [hep-ex].
- B. Aubert *et al.* [BaBar Collaboration], “Observation of  $B^+ \rightarrow a_1(1260)^+ K^0$  and  $B^0 \rightarrow a_1(1260) - K^+$ ,” Phys. Rev. Lett. **100**, 051803 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Search for CP Violation in the Decays  $D^0 \rightarrow K^- K^+$  and  $D^{0-} \rightarrow \pi^- \pi^+$ ,” Phys. Rev. Lett. **100**, 061803 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Observation of the Semileptonic Decays  $B^- \rightarrow D^* \tau \bar{\nu}$  and Evidence for  $B^- \rightarrow D \tau \bar{\nu}$ ,” Phys. Rev. Lett. **100**, 021801 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Measurements of Partial Branching Fractions for  $\bar{B} \rightarrow X_u e l \bar{\nu}$  and Determination of  $|V_{ub}|$ ,” Phys. Rev. Lett. **100**, 171802 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “A search for  $B^+ \rightarrow \tau + \nu$  with Hadronic B tags,” Phys. Rev. D **77**, 011107 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Observation of  $B^0 \rightarrow K^* \bar{0} K^* \bar{0}$  and search for  $B^0 \rightarrow 0 K^* 0$ ,” Phys. Rev. Lett. **100**, 081801 (2008).
- B. Aubert *et al.* [BaBar Collaboration], “Study of Resonances in Exclusive  $B \rightarrow \bar{D}^*(*) D^*(*) K$ ,” Phys. Rev. D **77**, 011102 (2008).
- B. Aubert *et al.* [The BaBar Collaboration], “Search for the rare charmless hadronic decay  $B^+ \rightarrow a_0 + \pi^0$ ,” Phys. Rev. D **77**, 011101 (2008).
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 1974-September, 1985

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Talks  
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September, 1985-Present

Invited Talks

- J. LoSecco, “Neutrino Physics Underground,” Aspen Center for Physics, Workshop on Underground Physics, (Aspen, Co.), August 30, 1985.
- J. LoSecco, “Particle and Astrophysical Results from Underground Experiments,” Aspen Winter Particle Physics Conference, (Aspen, Co.), January 16, 1986.
- J. LoSecco, “New Results from Underground Experiments,” Particle Physics Seminar, Brookhaven National Laboratory, (Upton, N.Y.), January 23, 1986.
- J. LoSecco, “Physics Results from IMB,” Rencontre de Moriond Workshop on Massive Neutrinos (Tignes, France), January 28, 1986.
- J. LoSecco, “Physics Results from IMB,” High Energy Physics Seminar, Purdue University, (West Lafayette, In.), February 19, 1986.
- J. LoSecco, “Particle and Astrophysics Results from Underground Experiments,” Lake Louise Winter Institute on Subatomic Physics, (Lake Louise, Canada), February 22, 1986.
- J. LoSecco, “ $\nu$  Results from IMB,” The 12<sup>th</sup> International Conference on Neutrino Physics and Astrophysics, (Sendai, Japan), June 4, 1986 .
- J. LoSecco, “Studying Matter Oscillations and Other Neutrino Physics with the IMB Detector,” High Energy Physics Seminar, Carnegie-Mellon University, (Pittsburgh, Pa.), September 17, 1986.
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- J. LoSecco, “Neutrino Observations of Supernova 1987A,” U.S. Department of Energy Seminar, (USDOE, Germantown, Md.), March 20, 1987.
- J. LoSecco, “Neutrino Oscillations from Cosmic Rays,” The Eighth Workshop on Grand Unification, Syracuse University, (Syracuse, N.Y.), April 16, 1987.
- J. LoSecco, “‘A Long Time Ago In A Galaxy Far Away’, Observation of Neutrinos from Supernova 1987A in the Large Magellanic Clouds,” Workshop on SN1987a, Theoretical Physics Institute, University of Minnesota, (Minneapolis, Minn.), June 6, 1987.
- J. LoSecco, “Comment on Neutrino Observations of Supernova 1987A,” The International Symposium on Underground Physics, (Baksan Valley, USSR), August 18, 1987.

- J. LoSecco, “Neutrino Physics with IMB,” The International Symposium on Underground Physics, (Baksan Valley, USSR), August 18, 1987.
- J. LoSecco, “Future Directions for the IMB Detector,” Workshop on Extra Solar Neutrino Astronomy, UCLA, (Los Angeles, Ca.), October 2, 1987.
- J. LoSecco, “Updated IMB Data,” Topical Workshop “Supernova 1987A, One Year Later,” Les Rencontres de Physique de la Vallee d’Aoste, (La Thuile, Aosta Valley, Italy), February 27, 1988.
- J. LoSecco, “Angular Distribution of IMB and Kamiokande Neutrino Events,” Topical Workshop “Supernova 1987A, One Year Later,” Les Rencontres de Physique de la Vallee d’Aoste, (La Thuile, Aosta Valley, Italy), February 27, 1988.
- J. LoSecco, “Observations of Neutrinos from SN1987A,” Invited talk at the joint meeting of the Ohio Section of the American Physical Society and the Southern Ohio Section of the American Association of Physics Teachers, Ohio State University, (Columbus, Ohio), April 16, 1988.
- J. LoSecco, “Observations of Neutrinos from SN1987A,” Colloquium, Physics Department, University of Toledo, (Toledo, Ohio), May 19, 1988.
- J. LoSecco, “Angular Distribution of Neutrinos from SN1987A,” Vulcano Workshop on “Frontier Objects in Astrophysics and Particle Physics,” (Vulcano, Italy), May 24, 1988.
- J. LoSecco, “Angular Distribution and Neutrino Energetics from SN1987A,” Astrophysics Workshop on the Large Scale Structure of the Universe, Aspen Center for Physics, (Aspen, Colorado), June 23, 1988.
- J. LoSecco, “Low Energy Neutrino Astronomy,” 1988 Summer Study on High Energy Physics in the 1990’s, (Snowmass, Colorado), June 30, 1988.
- J. LoSecco, “Recent Results from IMB,” SLAC Summer Institute on Particle Physics, SLAC, Stanford University, (Stanford, California), July 28, 1988.
- J. LoSecco, “Neutrino Astronomy,” Physics Department Seminar, Indiana University - Purdue University at Indianapolis, (Indianapolis, In.), October 19, 1988.
- J. LoSecco, “Neutrino Energetics and Neutrino Content of SN1987A,” 14<sup>th</sup> Texas Symposium on Relativistic Astrophysics, (Dallas, Texas), December 13, 1988.
- J. LoSecco, “Study of Particle Production in High Multiplicity Events at  $\sqrt{s}=1.8$  TeV,” High Energy Physics Seminar, Brookhaven National Laboratory, (Upton, Long Island, NY) January 26, 1989.
- J. LoSecco, “The Birth of Neutrino Astronomy,” Colloquium, Physics, Department, Purdue University, (West Lafayette, In.), March 2, 1989.

- J. LoSecco, "Observation and Applications of Atmospheric Neutrinos," Twelfth International Workshop on Weak Interactions and Neutrinos, (Ginosar, Sea of Galilee, Israel) April 11, 1989.
- J. LoSecco, "Observation of Neutrino Oscillations Using Atmospheric Neutrinos," Workshop on the Physics and Experimental Techniques of High Energy Neutrino and VHE and UHE Gamma-Ray Particle Astrophysics, (Little Rock, Arkansas) May 11, 1989.
- J. LoSecco, "Implications of SN1987A Neutrino Observations for Future Detections," Tenth Santa Cruz Summer Workshop SUPERNOVAE, University of California (Santa Cruz, California) July 17, 1989.
- J. LoSecco, "Neutrino Astrophysics, A Review of Observations of the 1987 Supernova," Joint Physics and Astronomy Colloquium, Indiana University, (Bloomington, In.), September 27, 1989.
- J. LoSecco, "Neutrino Astronomy of Supernova 1987A," NIAG Fest '89, Northern Indiana Astronomy Group Annual Meeting, Indiana University at South Bend, (South Bend, In.), September 30, 1989.
- J. LoSecco, "Neutrino Astrophysics: A Review of Observations of the 1987 Supernova," Physics Colloquium, The University of Louisville, (Louisville, Kentucky), October 6, 1989.
- J. LoSecco, "Neutrino Astrophysics: A Review of Observations of the 1987 Supernova," Physics Colloquium, Indiana State University, (Terre Haute, Indiana), November 29, 1989.
- J. LoSecco, "Hadron Production in the Central Region at 1.8 TeV," Elementary Particle Physics Seminar, Physics Department, University of Hawaii at Manoa (Honolulu, Hawaii) March 12, 1991.
- J. LoSecco, "Physics with IMB," at the International School of Particles and Cosmology, sponsored by the Institute for Nuclear Research of the Academy of Sciences of the USSR, (Baksan Valley, Caucasus, USSR) May 7, 1991.
- J. LoSecco, "Physics and Astrophysics with Underground Detectors," Elementary Particle Physics Seminar, Physics Department, Princeton University (Princeton, New Jersey) December 2, 1992.
- J. LoSecco, "Backgrounds,"  $\Phi$  Physics Workshop, Indiana University Cyclotron Facility, (Bloomington, Indiana) March 10, 1994.
- J. LoSecco, "The Search for Exotic Mesons," Laboratory of Nuclear Studies Journal Club, Physics Department, Cornell University (Ithaca, New York) March 25, 1994.
- J. LoSecco, "Neutrino Astrophysics, A Review of Observations of the 1987 Supernova," AAPT Summer Meeting, University of Notre Dame, (Notre Dame, Indiana) August 11, 1994.

- J. LoSecco, “Studying the Quark-Antiquark Force with Inelastic Pion Electron Scattering,” High Energy Physics Seminar. California Institute of Technology, (Pasadena, Ca.), December 5, 1994.
- J. LoSecco, “Search for Exotic Mesons at Brookhaven,” International School of Nuclear Physics, (Erice, Sicily, Italy), September 26, 1995.
- J. LoSecco, “Pointers and Structures in HEP,” BaBar Software Workshop, Stanford Linear Accelerator Center, Stanford University, (Stanford, California) December 8, 1995.
- J. LoSecco, “Vertexing Tools,” 4<sup>th</sup> BaBar Physics Workshop, Huntington Library and Art Gallery, (San Marino, California) September 23, 1997.
- J. LoSecco, “Evidence for Exotic Mesons,” High Energy Physics Seminar, University of Cincinnati, (Cincinnati, Ohio) October 21, 1997.
- J. LoSecco, “Evidence for Exotic Mesons at Brookhaven,” High Energy Physics Seminar, Harvard University, (Cambridge, Massachusetts) December 11, 1997.
- J. LoSecco, “Evidence for a New Exotic Meson,” Laboratory for Nuclear Science Colloquium, Massachusetts Institute of Technology, (Cambridge, Massachusetts) December 12, 1997.
- J. LoSecco, “B Physics at BaBar,” Workshop on Lattice QCD and the Standard Model at the 1998 Joint meeting of the American Physical Society and the American Association of Physics Teachers, (Columbus, Ohio) April 17, 1998.
- J. LoSecco, “Problems with Atmospheric Neutrino Oscillations,” Institute for Theoretical Physics Seminar, State University of New York, (Stony Brook, New York), October 19, 1998.
- J. LoSecco, “Problems with Atmospheric Neutrino Oscillations,” Wednesday Theory Seminar, Stanford Linear Accelerator Center, Stanford University (Stanford, California), October 28, 1998.
- J. LoSecco, “Problems with Atmospheric Neutrino Oscillations,” Theory Seminar, CERN the European Laboratory for Particle Physics, (Geneva, Switzerland), February 25, 1999.
- J. LoSecco, “Problems with Atmospheric Neutrino Oscillations,” Invited Talk, the RPM (Research Progress Meeting) Seminar, Lawrence Berkeley National Laboratory, Berkeley, California, February 13, 2001.
- J. LoSecco, “The Binary Pulsar(s) as a Probe of Extra Dimensions,” Particle Physics Seminar, University of Cincinnati, Ohio, March 8, 2002.
- J. LoSecco, “Inconsistencies in Interpreting the Atmospheric Neutrino Anomaly,” IX International Symposium on Particles Strings and Cosmology, PASCOS’03, Tata Institute of Fundamental Research, Mumbai, India, January 4, 2003.

- J. LoSecco, “Studies of Radiative Penguin B Decays (BaBar),” IX International Symposium on Particles Strings and Cosmology, PASCOS’03, Tata Institute of Fundamental Research, Mumbai, India, January 5, 2003.
- J. LoSecco, “Systematic Errors of Atmospheric Neutrino Analysis,” American Physical Society Neutrino Study Group, Argonne National Laboratory, Argonne, Illinois, December 14, 2003.
- J. LoSecco, “Detector Depth Dependence of the High Energy Neutrino Flux,” XXI International Conference on Neutrino Physics and Astrophysics, Collège de France, Paris, June 17-19, 2004.
- J. LoSecco, “Double Chooz – A  $\bar{\nu}_e$  Experiment to Measure  $\theta_{13}$ ,” Experimental Seminar, Stanford Linear Accelerator Center, Stanford University, Stanford, California, December 8, 2004.
- J. LoSecco, “Double Chooz, A  $\bar{\nu}_e$  Experiment to Measure  $\theta_{13}$ ,” Experimental Physics Seminar, Brookhaven National Laboratory, Brookhaven, L.I., New York, March 24, 2005.
- J. LoSecco, “Correlated Neutron Background,” MAND-sim Workshop (MeV Antineutrino Detector Simulation), Kansas State University, Manhattan, Kansas, June 15, 2005.
- J. LoSecco, “The History of ‘anomalous atmospheric neutrino events’,” A Festschrift and Conference on The Golden Age of Particle Physics and Its Legacy, Boston University, October 22, 2005.
- J. LoSecco, “Rare Decays and Lepton-Flavor Violation Studies at BaBar,” at ‘Miami 2006,’ Ft. Lauderdale, Florida, December 14, 2006.
- J. LoSecco, “The Search for the Neutrino Theta 13,” Cornell University LEPP Journal Club Seminar, Cornell University, Ithaca, NY, March 16, 2007.
- J. LoSecco, “Electronics Simulation,” Double Chooz Collaboration Meeting, Oxford University, Oxford, UK, September 19, 2007.
- J. LoSecco, “Muon Reconstruction 3,” Double Chooz Collaboration Meeting, Oxford University, Oxford, UK, September 19, 2007.
- J. LoSecco, “Software Status,” Double Chooz Collaboration Meeting, Oxford University, Oxford, UK, September 19, 2007.
- J. LoSecco, “Double Chooz, Extracting  $\theta_{13}$ ,” Double Chooz U.S. Collaboration Meeting, Argonne National Laboratory, Argonne, Illinois, January 12, 2008.
- J. LoSecco, “Extracting  $\theta_{13}$  at Double Chooz,” Double Chooz Collaboration Meeting, Kobe University, Kobe, Japan, March 3, 2008.

- J. LoSecco, "Neutron Detection Efficiency Studies," Double Chooz Collaboration Meeting, Champagne-Ardennes, France, June 27, 2008.
- J. LoSecco, "Simulating a Two Detector  $\theta_{13}$  Measurement," Double Chooz Collaboration Meeting, Champagne-Ardennes, France, June 28, 2008.

## Contributed Papers

- J. LoSecco, “A Study of Atmospheric Neutrinos with the IMB Detector,” 19<sup>th</sup> International Cosmic Ray Conference, (La Jolla, Ca.), August 17, 1985.
- J. LoSecco, “Investigation of Matter Enhanced Neutrino Oscillations Relevant to the Solar Neutrino Problem,” 20<sup>th</sup> International Cosmic Ray Conference, (Moscow, USSR), August 12, 1987.
- J. LoSecco, “Limits on the Flux of Energetic Neutrinos from the Sun,” 20<sup>th</sup> International Cosmic Ray Conference, (Moscow, USSR), August 12, 1987.
- J. LoSecco, “Studies of Neutrino Properties with Cosmic Ray Neutrinos,” 20<sup>th</sup> International Cosmic Ray Conference, (Moscow, USSR), August 12, 1987.
- J. LoSecco, “Particle Identification in IMB 3,” 21<sup>st</sup> International Cosmic Ray Conference, (Adelaide, South Australia, Australia), January 16, 1990.
- J. LoSecco, “Search for Dark Matter with IMB 1 and 3,” 21<sup>st</sup> International Cosmic Ray Conference, (Adelaide, South Australia, Australia), January 15, 1990.
- J. LoSecco, “DULAC A Compact Calorimeter for the SSC,” The International Conference on Calorimetry in High Energy Physics, Fermilab, (Batavia, Illinois), October 30, 1990.
- J. LoSecco, “A Search for Cygnus X3 in Underground Muons During the 1990 Radio Outburst Using the IMB Detector,” 22<sup>nd</sup> International Cosmic Ray Conference, (Dublin, Ireland), August 19, 1991.
- J. LoSecco, “Testing the MSW Solution to the Solar Neutrino Problem,” IV Rencontre de Blois, Particle Astrophysics, (Blois, Loire Valley, France), June 19, 1992.
- J. LoSecco, “Performance of a CsI Soft Photon Veto at the Brookhaven MPS,” Inauguration of the Detector Collaboration for PEP-II, Stanford Linear Accelerator Center, Stanford University, (Stanford, Ca.), December 2, 1993.
- J. LoSecco, “Studying the Quark-Antiquark Force with Inelastic Pion Electron Scattering,” International School of Nuclear Physics, (Erice, Sicily, Italy), September 24, 1995.
- J. LoSecco, “Studying the Quark-Antiquark Force with Inelastic Pion Electron Scattering,” Physics with High Energy  $e^+e^-$  Colliders, Fermi National Accelerator Laboratory, (Batavia, Il.), November 17, 1995.
- J. LoSecco “Search for Resonant Structure in the  $(b_1\pi)^-$  Final State in 18 GeV/c  $\pi^-p$  Interactions,” Joint Meeting of the American Physical Society and the American Association of Physics Teachers, (Indianapolis, In.), May 2, 1996.

- J. LoSecco “Porting of the BaBar Offline Code to the Linux Operating System,” International Conference on Computing in High Energy Physics, (Chicago, Il.), September 2, 1998.
- J. LoSecco “Problems with Atmospheric Neutrino Oscillations,” Institute for Theoretical Physics Seminar, State University of New York (Stony Brook, New York), October 19, 1998.
- J. LoSecco “Problems with Atmospheric Neutrino Oscillations,” Wednesday Theory Seminar, Stanford Linear Accelerator Center, Stanford University (Stanford, California), October 28, 1998.
- J. LoSecco “Problems with Atmospheric Neutrino Oscillations,” Theory Seminar, CERN the European Laboratory for Particle Physics (Geneva, Switzerland), February 25, 1999.
- J. LoSecco “Atmospheric Neutrinos: Past, Present, and ...,” 23<sup>rd</sup> Johns Hopkins Workshop on Current Problems in Particle Theory, Neutrinos in the Next Millenium, Johns Hopkins University (Baltimore, Maryland), June 10, 1999.
- J. LoSecco “(Mis)understanding the Atmospheric Neutrino Anomaly,” the XIX International Conference on Neutrino Physics and Astrophysics, poster session, Laurentian University (Sudbury, Ontario, Canada), June 18, 2000.
- J. LoSecco “(Mis)understanding of the Atmospheric Neutrino Anomaly,” The Sixth International Workshop on Tau Lepton Physics (Victoria, British Columbia, Canada), September 19, 2000.
- J. LoSecco “Problems with Atmospheric Neutrino Oscillations,” RPM (Research Progress Meeting) Seminar, Lawrence Berkeley National Laboratory (Berkeley, California), February 13, 2001.
- J. LoSecco “Detector Depth Dependence of the High Energy Neutrino Flux,” XXI International Conference on Neutrino Physics and Astrophysics, Collège de France, Paris, June 17-19, 2004.
- J. LoSecco “Double Chooz – A  $\bar{\nu}_e$  Experiment to Measure  $\theta_{13}$ ,” Experimental Seminar, Stanford Linear Accelerator Center, Stanford University (Stanford, California), December 8, 2004.
- J. LoSecco “Spill in Spill out Studies,” Double Chooz Meeting, University of Chicago, May 14, 2007.
- J. LoSecco, “Tube Failure Studies,” Double Chooz Meeting, University of Chicago, May 15, 2007.
- J. LoSecco, “Reflecting Wall Studies,” Double Chooz Meeting, University of Chicago, May 15, 2007.

- J. LoSecco, “Software Tutorial,” Double Chooz Meeting, University of Chicago, May 15, 2007.
- J. LoSecco, “Double Chooz, Extracting  $\theta_{13}$ ,” Double Chooz U.S. Collaboration Meeting, Argonne National Laboratory, Argonne, Illinois, January 12, 2008.
- J. LoSecco, “Extracting  $\theta_{13}$  at Double Chooz” Double Chooz Collaboration Meeting, Kobe University, Kobe, Japan, March 3, 2008.
- J. LoSecco, “Neutron Detection Efficiency Studies” Double Chooz Collaboration Meeting, Champagne-Ardennes, France, June 27, 2008.
- J. LoSecco, “Simulating a Two Detector  $\theta_{13}$  Measurement” Double Chooz Collaboration Meeting, Champagne-Ardennes, France, June 28, 2008.

## Local Talks

- J. LoSecco, “CP Violation – Report on Unfinished Business,” with I. Bigi and C. Jessop, Physics Colloquium, University of Notre Dame, January 28, 2009.
- J. LoSecco, “Searching for CP Violation in B Decays at BaBar,” Notre Dame REU Seminar, (Notre Dame, In.), July 18, 1996.
- J. LoSecco, “Probing QCD in Simple Bound State Systems,” Notre Dame Theoretical Physics Seminar, (Notre Dame, In.), February 1, 1996.
- J. LoSecco, “The Search for Exotic Mesons at Brookhaven,” Notre Dame Senior Seminar, (Notre Dame, In.), October 30, 1995.
- J. LoSecco, “Has the Neutrino Mass Been Measured,” Notre Dame High Energy Physics Seminar, (Notre Dame, In.), February 21, 1995.
- J. LoSecco, “Has the Neutrino Mass Been Measured,” Notre Dame Astrophysics Lunch, (Notre Dame, In.), February 9, 1995.
- J. LoSecco, “Report on the Aspen Workshop on Underground Physics,” Notre Dame High Energy Physics Seminar, (Notre Dame, In.), September 1985.
- J. LoSecco, “Proton Decay,” Notre Dame Senior Seminar, (Notre Dame, In.), November 25, 1985.
- J. LoSecco, “Physics Underground,” Notre Dame Physics Colloquium, (Notre Dame, In.), February 5, 1986.
- J. LoSecco, “Report on the Moriond Workshop on ‘Neutrinos Massifs’,” Notre Dame, Joint High Energy, Nuclear and Theory Seminar, (Notre Dame, In.), February 13, 1986.
- J. LoSecco, “Searches for New and Exotic Phenomena,” Notre Dame High Energy Physics Seminar, (Notre Dame, In.), February 19, 1987.
- J. LoSecco, “Neutrino Observations of Supernova 1987A,” REU seminar, Physics Department, University of Notre Dame, (Notre Dame, In.), June 17, 1987.
- J. LoSecco, “Workshop on Extra Solar Neutrino Astronomy,” High Energy Physics Seminar, Physics Department, University of Notre Dame, (Notre Dame, In.), October 29, 1987.
- J. LoSecco, “Supernova, the Death of a Star,” Evening Seminar, *Opus Dei*, (Notre Dame, In.), December 4, 1987.
- J. LoSecco, “Of Salt Mines and Supernovae, Neutrinos from Supernova 1987A at the IMB Detector,” Notre Dame Senior Seminar, (Notre Dame, In.), December 7, 1987.

- J. LoSecco, “Reminiscences of Dick Feynman,” Special Presentation, Physics Department, University of Notre Dame, (Notre Dame, In.), March 9, 1988.
- J. LoSecco, “Neutrinos from Supernova 1987A,” REU seminar, Physics Department, University of Notre Dame, (Notre Dame, In.), July 13, 1988.
- J. LoSecco, “The Birth of Neutrino Astronomy,” Physics Colloquium, University of Notre Dame, (Notre Dame, In.), September 7, 1988.
- J. Poirier and J. LoSecco, “Report on the 14’th Texas Symposium on Relativistic Astrophysics,” High Energy Physics Seminar, University of Notre Dame, (Notre Dame, In.), February 2, 1989.
- J. LoSecco, “The Birth of Neutrino Astronomy or A Long Time Ago in a Galaxy Far Away,” REU seminar, Physics Department, University of Notre Dame, (Notre Dame, In.), July 5, 1989.
- J. LoSecco and J. Poirier, “Report on the Workshop on the Physics and Experimental Techniques of High Energy Neutrino and VHE and UHE Gamma-Ray Particle Astrophysics at Little Rock, Arkansas,” High Energy Physics Seminar, Physics Department, University of Notre Dame, (Notre Dame, In.), September 14, 1989.
- J. LoSecco, “Neutrino Astronomy of Supernova 1987A,” Notre Dame Senior Seminar, (Notre Dame, In.), September 25, 1987.
- J. LoSecco and J. Gress, “Report from the 21<sup>st</sup> International Cosmic Ray Conference,” High Energy Physics Seminar, Physics Department, University of Notre Dame, (Notre Dame, In.), February 8, 1990.
- J. LoSecco, “Measurement of the Muon Neutrino Content of Underground Neutrinos,” High Energy Physics Seminar, University of Notre Dame, (Notre Dame, In.), February 15, 1990.
- J. LoSecco, “Muon Neutrino Content of Cosmic Rays,” REU seminar, Physics Department, University of Notre Dame, (Notre Dame, In.), July 13, 1990.
- J. LoSecco, “The Universe According to LoSecco,” An Introduction to Modern Cosmology, Bnai Israel Reconstructionist Congregation, (South Bend, In.) September 7, 1990.
- J. LoSecco, “DULAC, A Compact Calorimeter for the SSC,” High Energy Physics Seminar, Physics Department, University of Notre Dame, (Notre Dame, Indiana), October 25, 1990.
- J. LoSecco, “Where is the Quantum in Chromodynamics?,” Theoretical Physics Seminar, Physics Department, University of Notre Dame, (Notre Dame, Indiana), December 10, 1990.
- J. LoSecco, “Report from the International Conference on High Energy Physics 1992,” High Energy Physics Seminar. University of Notre Dame, (Notre Dame, In.), September 21, 1992.
- J. LoSecco, “Testing the MSW Solution to the Solar Neutrino Problem,” High Energy Physics Seminar. University of Notre Dame, (Notre Dame, In.), October 21, 1992.

- J. LoSecco, “Neutrino Observations of the 1987 Supernova,” Senior Seminar. University of Notre Dame, (Notre Dame, In.), November 2, 1992.
- J. LoSecco, “Is There an Atmospheric Neutrino Anomaly,” Physics Colloquium. University of Notre Dame, (Notre Dame, In.), March 24, 1993.
- J. LoSecco, “Neutrino Observations of the 1987 Supernova,” Senior Seminar. University of Notre Dame, (Notre Dame, In.), January 24, 1994.
- J. LoSecco, “Studying the Quark-Antiquark Force with Inelastic Pion Electron Scattering,” High Energy Physics Seminar. University of Notre Dame, (Notre Dame, In.), November 22, 1994.
- J. LoSecco, “B Physics at BaBar,” High Energy Physics Seminar, University of Notre Dame, (Notre Dame, In.), May 5, 1998.
- J. LoSecco, “Problems with Atmospheric Neutrino Oscillations,” High Energy Physics Seminar, University of Notre Dame, (Notre Dame, In.), September 10, 1998.

## Collaboration Talks

- J. LoSecco gave four presentations, “Double Chooz Simple Root and Ntuple Access Tutorial,” “Double Chooz Graphics Tutorial,” on March 6, 2007; “The Double Chooz Response to Supernova,” and “Through Going Muon Reconstruction,” on March 7, 2007 at the Double Chooz Collaboration Meeting, CIEMAT, Madrid, Spain, March 5-10, 2007.
- J. LoSecco gave three presentations, “Spill in out,” on May 30, 2007; “The effects of phototube failures on reconstruction,” May 31, 2007; “Comparing black and steel walls,” May 31, 2007 at the Double Chooz Collaboration Meeting at the Chooz Nuclear Power Station, Chooz, Champagne-Ardenne, France, May 29-June 1, 2007.

## Conference Presentations

- J. LoSecco presented a poster entitled “Supernova Detection with Double Chooz,” on February 23, 2007 at the conference “Twenty Years After SN1987A, What did we learn, what will the next SN tell us?” in Waikoloa, Hawaii.