

Matthew R. Shepherd

Curriculum Vitae

Contact Information

Department of Physics
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Professional Preparation

2005 Ph.D., Experimental Particle Physics, Cornell University
2003 M.S., Physics, Cornell University
2000 B.S., Physics with High Distinction, Indiana University
2000 B.S., Mathematics with Honors and High Distinction, Indiana University

Appointments

2005 - Assistant Professor, Indiana University
2001 - 2005 Graduate Research Assistant, CLEO Collaboration, Cornell University
Fall 2001 Teaching Assistant, Cornell University
Fall 2000 Teaching Assistant, Cornell University
1997 - 2000 Undergraduate Research Assistant, Indiana University
Summer 1999 Summer Research Assistant, CERN
1997 - 1998 Teaching Assistant, Indiana University
Summer 1997 Summer Research Assistant, Jefferson Lab

Awards and Honors

2007 Konopinski Award for Outstanding Teaching
2000 - 2002 Cornell Fellow
1999 - 2000 Barry M. Goldwater Scholar
2000 Outstanding Undergraduate in Physics, Indiana University
1999 Hugh Brown Memorial Scholarship, Physics, Indiana University
1999 Elected to ΦBK
1999 Marie Wilcox Scholarship, Mathematics, Indiana University
1999 $\Sigma\Xi$ Undergraduate Research Award
1998 Elected to $\Sigma\Pi\Sigma$ National Physics Honor Society
1998 Outstanding Undergraduate Associate Instructor, Physics, Indiana University

Professional Service and Membership

2007 - 2008 CLEO-c Physics Analysis Coordinator
2007 - Member of the GlueX Collaboration Board
since 2005 Member of the American Physical Society
since 1999 Member of the $\Sigma\Xi$ Scientific Research Society

Selected Publications

- R. E. Mitchell *et al.* [CLEO Collaboration], “ J/ψ and $\psi(2S)$ Radiative Decays to η_c ,” *Phys. Rev. Lett.* **102**, 011801 (2009) [arXiv:0805.0252 [hep-ex]].
- M. R. Shepherd, “Light meson spectroscopy results from CLEO-c,” *Proceedings of the International Workshop on e^+e^- Collisions from ϕ to ψ* , Nucl. Phys. **B** Proc. Suppl., 184 (2008).
- M. R. Shepherd, “Heavy quark spectroscopy results from CLEO-c,” *Proceedings of the International Workshop on e^+e^- Collisions from ϕ to ψ* , Nucl. Phys. **B** Proc. Suppl., 343 (2008).
- J. V. Bennett *et al.* [CLEO Collaboration], “Observation of χ_{cJ} radiative decays to light vector mesons,” *Phys. Rev. Lett.* **101**, 151801 (2008) [arXiv:0807.3718 [hep-ex]].
- B. D. Leverington *et al.*, “Performance of the prototype module of the GlueX electromagnetic barrel calorimeter,” *Nucl. Instrum. Meth. A* **596**, 327 (2008).
- M. R. Shepherd, “Hadronic Physics at CLEO-c,” *Proceedings of the XII International Conference on Hadronic Spectroscopy*, Frascati Physics Series, Volume XLVI (2007) [arXiv:0801.1024 [hep-ex]].
- N. E. Adam *et al.* [CLEO Collaboration], “A Study of Exclusive Charmless Semileptonic B Decay and $|V_{ub}|$,” *Phys. Rev. Lett.* **99**, 041802 (2007) [arXiv:hep-ex/0703041].
- D. M. Asner *et al.* [CLEO Collaboration], “A Study of Exclusive Charmless Semileptonic B Decays and Extraction of $|V_{ub}|$ at CLEO,” *Phys. Rev. D* **76**, 012007 (2007) [arXiv:hep-ex/0703042].
- A. R. Dzierba *et al.*, “A partial wave analysis of the $\pi^-\pi^-\pi^+$ and $\pi^-\pi^0\pi^0$ systems and the search for a $J^{PC} = 1^{-+}$ meson,” *Phys. Rev. D* **73**, 072001 (2006) [arXiv:hep-ex/0510068].
- M. R. Shepherd, “The Differential Decay Rates of Exclusive Charmless Semileptonic B Meson Decay,” Ph.D. Thesis, Cornell University, 2005.
- A. R. Dzierba *et al.*, “A study of the $\eta\pi^0$ spectrum and search for a $J^{PC} = 1^{-+}$ exotic meson,” *Phys. Rev. D* **67**, 094015 (2003) [arXiv:hep-ex/0304002].
- A. Bornheim *et al.* [CLEO Collaboration], “Measurements of charmless hadronic two-body B meson decays and the ratio $\mathcal{B}(B \rightarrow DK)/\mathcal{B}(B \rightarrow D\pi)$,” *Phys. Rev. D* **68**, 052002 (2003) [arXiv:hep-ex/0302026].
- J. Gunter *et al.* [E852 Collaboration], “A partial wave analysis of the $\pi^0\pi^0$ system produced in π^-p charge exchange collisions,” *Phys. Rev. D* **64**, 072003 (2001) [arXiv:hep-ex/0001038].

Talks

- “Leptonic and Semileptonic Decays of D and D_s Mesons at CLEO-c,” *International Conference on Particles and Nuclei: PANIC08*, Eilat, Israel (November 2008).
- “Heavy Quarkonia Results from CLEO-c,” *International Conference on Particles and Nuclei: PANIC08*, Eilat, Israel (November 2008).
- “Hybrid Mesons: Prospects for the GlueX Experiment,” *The Nuclear Physics Challenge to Lattice QCD*, Glasgow, UK (April 2008).
- “Light Meson Spectroscopy Results from CLEO-c,” *International Workshop on e^+e^- Collisions from ϕ to ψ* , Frascati, Italy (April 2008).
- “Heavy Quark Spectroscopy Results from CLEO-c,” *International Workshop on e^+e^- Collisions from ϕ to ψ* , Frascati, Italy (April 2008).

“The GlueX Detector,” *Workshop on Photon-Hadron Physics*, Jefferson Lab (March 2008).

“Overview of $B \rightarrow V\ell\nu$ Measurements,” *HFAG V_{cb} Workshop*, Heidelberg, Germany (December 2007).

“Amplitude Analysis: Physics and Tools,” *BES-Belle-CLEO-BaBar Joint Workshop on Charm Physics*, Beijing, China (November 2007).

“The GlueX Experiment,” *High Energy Physics Seminar*, University of Notre Dame (November 2007).

“Hadronic Physics at CLEO-c,” *XII International Conference on Hadron Spectroscopy: HADRON07*, Frascati, Italy (October 2007).

“Recent Results in Meson Spectroscopy,” *Jefferson Lab Users’ Group Meeting*, (June 2007).

“The Search for Exotic Mesons at GlueX,” *High Energy/Nuclear Physics Seminar*, University of Rochester (November, 2006).

“Experimental Status of and Future Prospects for Exotic Mesons,” *Second Meeting of the APS Topical Group on Hadronic Physics*, Nashville, TN (October, 2006).

“ D , D_s , and Charmonium Physics at CLEO-c,” *MESON 2006*, Krakow, Poland (June, 2006).

“A Charming Sample of CLEO-c Physics,” *High Energy Physics Seminar*, Indiana University, Bloomington, IN (January 2006).

“ B Physics from CLEO,” *XXXIXth Rencontres de Moriond, QCD and Hadronic Interactions*, La Thuile, Italy (March, 2004).

“Charmless Semileptonic B Decays at CLEO,” *High Energy Physics Seminar*, Indiana University, Bloomington, IN (February, 2004).

“Charmless Semileptonic B Decays at CLEO,” *Jefferson Lab Physics Seminar*, Newport News, VA (January, 2004).

Full Publication List (Refereed Journals Only)

R. E. Mitchell *et al.* [CLEO Collaboration], “ J/ψ and $\psi(2S)$ Radiative Decays to η_c ,” *Phys. Rev. Lett.* **102**, 011801 (2009) [arXiv:0805.0252 [hep-ex]].

K. M. Ecklund *et al.* [CLEO Collaboration], “Two-Photon Widths of the χ_{cJ} States of Charmonium,” *Phys. Rev. D* **78**, 091501(R) (2008) [arXiv:0803.2869 [hep-ex]].

R. A. Briere *et al.* [CLEO Collaboration], “Inclusive $\chi_{bJ}(nP)$ Decays to $D^0 X$,” *Phys. Rev. D* **78**, 092007 (2008) [arXiv:0807.3757 [hep-ex]].

D. M. Asner *et al.*, “Observation of $\chi_b(1P_J, 2P_J)$ decays to light hadrons,” *Phys. Rev. D* **78**, 091103 (2008) [arXiv:0808.0933 [hep-ex]].

P. Rubin *et al.* [CLEO Collaboration], “Search for CP Violation in the Dalitz-Plot Analysis of $D^\pm \rightarrow K^+ K^- \pi^\pm$,” *Phys. Rev. D* **78**, 072003 (2008) [arXiv:0807.4545 [hep-ex]].

W. Love *et al.* [CLEO Collaboration], “Search for Lepton Flavor Violation in Upsilon Decays,” *Phys. Rev. Lett.* **101**, 201601 (2008) [arXiv:0807.2695 [hep-ex]].

J. V. Bennett *et al.* [CLEO Collaboration], “Observation of χ_{cJ} radiative decays to light vector mesons,” *Phys. Rev. Lett.* **101**, 151801 (2008) [arXiv:0807.3718 [hep-ex]].

W. Love *et al.* [CLEO Collaboration], “Search for Very Light CP -Odd Higgs Boson in Radiative Decays of $\Upsilon(1S)$,” *Phys. Rev. Lett.* **101**, 151802 (2008) [arXiv:0807.1427 [hep-ex]].

- Q. He *et al.* [CLEO Collaboration], “Observation of $\Upsilon(2S) \rightarrow \eta\Upsilon(1S)$ and search for related transitions,” Phys. Rev. Lett. **101**, 192001 (2008) [arXiv:0806.3027 [hep-ex]].
- J. Libby *et al.* [CLEO Collaboration], “Measurement of the η' -meson mass using $J/\psi \rightarrow \gamma\eta'$,” Phys. Rev. Lett. **101**, 182002 (2008) [arXiv:0806.2344 [hep-ex]].
- Q. He *et al.* [CLEO Collaboration], “First Observation of Exclusive χ_{cJ} Decays to Two Charged and Two Neutral Hadrons,” Phys. Rev. D **78**, 092004 (2008) [arXiv:0806.1227 [hep-ex]].
- B. D. Leverington *et al.*, “Performance of the prototype module of the GlueX electromagnetic barrel calorimeter,” Nucl. Instrum. Meth. A **596**, 327 (2008).
- G. S. Adams *et al.* [CLEO Collaboration], “Observation of $J/\psi \rightarrow 3\gamma$,” Phys. Rev. Lett. **101**, 101801 (2008) [arXiv:0806.0671 [hep-ex]].
- B. I. Eisenstein *et al.* [CLEO Collaboration], “Precision Measurement of $\mathcal{B}(D^+ \rightarrow \mu^+\nu)$ and the Pseudoscalar Decay Constant f_{D^+} ,” Phys. Rev. D **78**, 052003 (2008) [arXiv:0806.2112 [hep-ex]].
- G. Bonvicini *et al.* [CLEO Collaboration], “Dalitz plot analysis of the $D^+ \rightarrow K^-\pi^+\pi^+$ decay,” Phys. Rev. D **78**, 052001 (2008) [arXiv:0802.4214 [hep-ex]].
- D. Besson *et al.* [CLEO Collaboration], “Inclusive Radiative J/ψ Decays,” Phys. Rev. D **78**, 032012 (2008) [arXiv:0806.0315 [hep-ex]].
- P. Naik *et al.* [CLEO Collaboration], “Measurement Of Exclusive Baryon-Antibaryon Decays Of χ_{cJ} Mesons,” Phys. Rev. D **78**, 031101 (2008) [arXiv:0806.1715 [hep-ex]].
- S. Dobbs *et al.* [CLEO Collaboration], “Precision Measurement of the Mass of the $h_c(^1P_1)$ State of Charmonium,” Phys. Rev. Lett. **101**, 182003 (2008) [arXiv:0805.4599 [hep-ex]].
- D. M. Asner *et al.* [CLEO Collaboration], “Determination of the $D^0 \rightarrow K^+\pi^-$ Relative Strong Phase Using Quantum-Correlated Measurements in $e^+e^- \rightarrow D^0\bar{D}^0$ at CLEO,” Phys. Rev. D **78**, 012001 (2008) [arXiv:0802.2268 [hep-ex]].
- H. Mendez *et al.* [CLEO Collaboration], “Branching Fractions for Transitions of $\psi(2S)$ to J/ψ ,” Phys. Rev. D **78**, 011102 (2008) [arXiv:0804.4432 [hep-ex]].
- M. Artuso *et al.* [CLEO Collaboration], “Measurement of exclusive D meson decays to η and η' final states and $SU(3)$ amplitude analysis,” Phys. Rev. D **77**, 092003 (2008) [arXiv:0802.2664 [hep-ex]].
- G. Bonvicini *et al.* [CLEO Collaboration], “Absolute Branching Fractions of Cabibbo-Suppressed $D \rightarrow K\bar{K}$ Decays,” Phys. Rev. D **77**, 091106 (2008) [arXiv:0803.0793 [hep-ex]].
- J. L. Rosner *et al.* [CLEO Collaboration], “Determination of the Strong Phase in $D^0 \rightarrow K^+\pi^-$ Using Quantum-Correlated Measurements,” Phys. Rev. Lett. **100**, 221801 (2008) [arXiv:0802.2264 [hep-ex]].
- S. B. Athar *et al.* [CLEO Collaboration], “First Observation of the Decay $D_s^+ \rightarrow p\bar{n}$,” Phys. Rev. Lett. **100**, 181802 (2008) [arXiv:0803.1118 [hep-ex]].
- J. P. Alexander *et al.* [CLEO Collaboration], “Absolute Measurement of Hadronic Branching Fractions of the D_s^+ Meson,” Phys. Rev. Lett. **100**, 161804 (2008) [arXiv:0801.0680 [hep-ex]].
- K. M. Ecklund *et al.* [CLEO Collaboration], “Measurement of the Absolute Branching Fraction of $D_s^+ \rightarrow \tau^+\nu_\tau$ Decay,” Phys. Rev. Lett. **100**, 161801 (2008) [arXiv:0712.1175 [hep-ex]].
- S. Dobbs *et al.* [CLEO Collaboration], “A Study of the Semileptonic Charm Decays $D^0 \rightarrow \pi^-e^+\nu_e$, $D^+ \rightarrow \pi^0e^+\nu_e$, $D^0 \rightarrow K^-e^+\nu_e$, and $D^+ \rightarrow K^0e^+\nu_e$,” Phys. Rev. D **77**, 112005 (2008) [arXiv:0712.1020 [hep-ex]].
- D. Cronin-Hennessy *et al.* [CLEO Collaboration], “A Study of the Decays $D^0 \rightarrow \pi^-e^+\nu_e$, $D^0 \rightarrow K^-e^+\nu_e$, $D^+ \rightarrow \pi^0e^+\nu_e$, and $D^+ \rightarrow K^0e^+\nu_e$,” Phys. Rev. Lett. **100**, 251802 (2008) [arXiv:0712.0998 [hep-ex]].

- Q. He *et al.* [CLEO Collaboration], “Comparison of $D \rightarrow K_S^0 \pi$ and $D \rightarrow K_L^0 \pi$ Decay Rates,” Phys. Rev. Lett. **100**, 091801 (2008) [arXiv:0711.1463 [hep-ex]].
- S. Dobbs *et al.* [CLEO Collaboration], “Measurement of Absolute Hadronic Branching Fractions of D Mesons and $e^+e^- \rightarrow D\bar{D}$ Cross Sections at the $\psi(3770)$,” Phys. Rev. D **76**, 112001 (2007) [arXiv:0709.3783 [hep-ex]].
- G. S. Adams *et al.* [CLEO Collaboration], “Suppressed Decays of D_s^+ Mesons to Two Pseudoscalar Mesons,” Phys. Rev. Lett. **99**, 191805 (2007) [arXiv:0708.0139 [hep-ex]].
- A. Lopez *et al.* [CLEO Collaboration], “Measurement of Prominent η Decay Branching Fractions,” Phys. Rev. Lett. **99**, 122001 (2007) [arXiv:0707.1601 [hep-ex]].
- D. H. Miller *et al.* [CLEO Collaboration], “Measurement of the η -Meson Mass using $\psi(2S) \rightarrow \eta J/\psi$,” Phys. Rev. Lett. **99**, 122002 (2007) [arXiv:0707.1810 [hep-ex]].
- D. Cronin-Hennessy *et al.* [CLEO Collaboration], “Study of Di-Pion Transitions Among $\Upsilon(3S)$, $\Upsilon(2S)$, and $\Upsilon(1S)$ States,” Phys. Rev. D **76**, 072001 (2007) [arXiv:0706.2317 [hep-ex]].
- D. Besson *et al.* [CLEO Collaboration], “Measurement of the Total Hadronic Cross Section in e^+e^- Annihilations below 10.56 GeV,” Phys. Rev. D **76**, 072008 (2007) [arXiv:0706.2813 [hep-ex]].
- M. Artuso *et al.* [CLEO Collaboration], “Evidence for the Decay $D^0 \rightarrow K\pi^+\pi^-e^+\nu_e$,” Phys. Rev. Lett. **99**, 191801 (2007) [arXiv:0705.4276 [hep-ex]].
- T. K. Pedlar *et al.* [CLEO Collaboration], “Measurement of $\mathcal{B}(D_s^+ \rightarrow l^+\nu)$ and the decay constant $f_{D_s^+}$,” Phys. Rev. D **76**, 072002 (2007) [arXiv:0704.0437 [hep-ex]].
- M. Artuso *et al.* [CLEO Collaboration], “Measurement of the decay constant $f_{D_s^+}$ using $D_s^+ \rightarrow \ell^+\nu$,” Phys. Rev. Lett. **99**, 071802 (2007) [arXiv:0704.0629 [hep-ex]].
- N. E. Adam *et al.* [CLEO Collaboration], “A Study of Exclusive Charmless Semileptonic B Decay and $|V_{ub}|$,” Phys. Rev. Lett. **99**, 041802 (2007) [arXiv:hep-ex/0703041].
- D. M. Asner *et al.* [CLEO Collaboration], “A Study of Exclusive Charmless Semileptonic B Decays and Extraction of $|V_{ub}|$ at CLEO,” Phys. Rev. D **76**, 012007 (2007) [arXiv:hep-ex/0703042].
- R. A. Briere *et al.* [CLEO Collaboration], “Comparison of particle production in quark and gluon fragmentation at $\sqrt{s} \sim 10$ GeV,” Phys. Rev. D **76**, 012005 (2007) [arXiv:0704.2766 [hep-ex]].
- J. L. Rosner *et al.* [CLEO Collaboration], “Measurement of Upper Limits for $\Upsilon \rightarrow \gamma + \mathcal{R}$ Decays,” Phys. Rev. D **76**, 117102 (2007) [arXiv:0704.2773 [hep-ex]].
- S. B. Athar *et al.* [CLEO Collaboration], “Search for Radiative Decays of $\Upsilon(1S)$ into η and η' ,” Phys. Rev. D **76**, 072003 (2007) [arXiv:0704.3063 [hep-ex]].
- G. Bonvicini *et al.* [CLEO Collaboration], “Dalitz plot analysis of the $D^+ \rightarrow \pi^-\pi^+\pi^+$ decay,” Phys. Rev. D **76**, 012001 (2007) [arXiv:0704.3954 [hep-ex]].
- T. K. Pedlar *et al.* [CLEO Collaboration], “Search for $\psi(2S) \rightarrow \eta_c \pi^+ \pi^- \pi^0$,” Phys. Rev. D **75**, 011102 (2007).
- C. Cawlfeld *et al.* [CLEO Collaboration], “A precision determination of the D^0 mass,” Phys. Rev. Lett. **98**, 092002 (2007) [arXiv:hep-ex/0701016].
- D. M. Asner *et al.* [CLEO Collaboration], “Anti-deuteron production in $\Upsilon(nS)$ decays and the nearby continuum,” Phys. Rev. D **75**, 012009 (2007) [arXiv:hep-ex/0612019].
- P. Rubin *et al.* [CLEO Collaboration], “Search for invisible decays of the $\Upsilon(1S)$ resonance,” Phys. Rev. D **75**, 031104 (2007) [arXiv:hep-ex/0612051].
- Q. He *et al.* [CLEO Collaboration], “Confirmation of the $Y(4260)$ resonance production in ISR,” Phys. Rev. D **74**, 091104 (2006) [arXiv:hep-ex/0611021].

- G. S. Adams *et al.* [CLEO Collaboration], ‘ χ_{c0} and χ_{c2} Decays into $\eta\eta$, $\eta\eta'$, and $\eta'\eta'$ Final States,’ Phys. Rev. D **75**, 071101 (2007) [Erratum-ibid. D **75**, 079901 (2007)] [arXiv:hep-ex/0611013].
- G. S. Huang *et al.* [CLEO Collaboration], ‘Measurement of inclusive production of η , η' and ϕ mesons in D^0 , D^+ and D_s^+ decays,’ Phys. Rev. D **74**, 112005 (2006) [arXiv:hep-ex/0610008].
- O. Aquines *et al.* [CLEO Collaboration], ‘Improved measurement of the branching fraction and energy spectrum of η' from $\Upsilon(1S)$ decays,’ Phys. Rev. D **74**, 092006 (2006) [arXiv:hep-ex/0610032].
- G. S. Huang *et al.* [CLEO Collaboration], ‘Measurement of $\mathcal{B}(\Upsilon(5S) \rightarrow B_s^* \bar{B}_s^*)$ using ϕ mesons,’ Phys. Rev. D **75**, 012002 (2007) [arXiv:hep-ex/0610035].
- S. A. Dytman *et al.* [CLEO Collaboration], ‘Branching fraction for the doubly-Cabibbo-suppressed decay $D^+ \rightarrow K^+ \pi^0$,’ Phys. Rev. D **74**, 071102 (2006) [Erratum-ibid. D **74**, 079904 (2006)] [arXiv:hep-ex/0609008].
- D. Besson *et al.* [CLEO Collaboration], ‘First observation of $\Upsilon(3S) \rightarrow \tau\tau$ and tests of lepton universality in Υ decays,’ Phys. Rev. Lett. **98**, 052002 (2007) [arXiv:hep-ex/0607019].
- S. B. Athar *et al.* [CLEO Collaboration], ‘ χ_{cJ} decays to $h^+ h^- h^0$,’ Phys. Rev. D **75**, 032002 (2007) [arXiv:hep-ex/0607072].
- M. R. Shepherd *et al.* [CLEO Collaboration], ‘Model independent measurement of form factors in the decay $D^+ \rightarrow K^- \pi^+ e^+ \nu_e$,’ Phys. Rev. D **74**, 052001 (2006) [arXiv:hep-ex/0606010].
- C. Cawfield *et al.* [CLEO Collaboration], ‘Measurement of interfering $K^{*+} K^-$ and $K^{*-} K^+$ amplitudes in the decay $D^0 \rightarrow K^+ K^- \pi^0$,’ Phys. Rev. D **74**, 031108 (2006) [arXiv:hep-ex/0606045].
- R. A. Briere *et al.* [CLEO Collaboration], ‘Observation of $\psi(3770) \rightarrow \gamma\chi_{c0}$,’ Phys. Rev. D **74**, 031106 (2006) [arXiv:hep-ex/0605070].
- P. Rubin *et al.* [CLEO Collaboration], ‘An investigation of $D^+ \rightarrow \tau^+ \nu$,’ Phys. Rev. D **73**, 112005 (2006) [arXiv:hep-ex/0604043].
- N. E. Adam *et al.* [CLEO Collaboration], ‘Absolute branching fraction measurements for D^+ and D^0 inclusive semileptonic decays,’ Phys. Rev. Lett. **97**, 251801 (2006) [arXiv:hep-ex/0604044].
- S. Dobbs *et al.* [CLEO Collaboration], ‘Measurement of interference between electromagnetic and strong amplitudes in $\psi(2S)$ decays to two pseudoscalar mesons,’ Phys. Rev. D **74**, 011105 (2006) [arXiv:hep-ex/0603020].
- D. Cronin-Hennessy *et al.* [CLEO Collaboration], ‘Search for the non- $D\bar{D}$ decay $\psi(3770) \rightarrow K_S^0 K_L^0$,’ Phys. Rev. D **74**, 012005 (2006) [arXiv:hep-ex/0603026].
- T. E. Coan *et al.* [CLEO Collaboration], ‘Charmonium decays of $Y(4260)$, $\psi(4160)$, and $\psi(4040)$,’ Phys. Rev. Lett. **96**, 162003 (2006) [arXiv:hep-ex/0602034].
- J. L. Rosner *et al.* [CLEO Collaboration], ‘Experimental limits on weak annihilation contributions to $b \rightarrow u\ell\nu$ decay,’ Phys. Rev. Lett. **96**, 121801 (2006) [arXiv:hep-ex/0601027].
- O. Aquines *et al.* [CLEO Collaboration], ‘First measurements of the exclusive decays of the $\Upsilon(5S)$ to B meson final states and improved B_s^* mass measurement,’ Phys. Rev. Lett. **96**, 152001 (2006) [arXiv:hep-ex/0601044].
- D. Besson *et al.* [CLEO Collaboration], ‘Measurement of $\sigma(e^+e^- \rightarrow \psi(3770) \rightarrow \text{hadrons})$ at $E_{\text{cm}} = 3773$ MeV,’ Phys. Rev. Lett. **96**, 092002 (2006) [arXiv:hep-ex/0512038].
- G. S. Adams *et al.* [CLEO Collaboration], ‘Measurement of $\Gamma_{ee}(J/\psi)$, $\Gamma_{\text{tot}}(J/\psi)$, and $\Gamma_{ee}(\psi(2S))/\Gamma_{ee}(J/\psi)$,’ Phys. Rev. D **73**, 051103 (2006) [arXiv:hep-ex/0512046].
- J. L. Rosner *et al.* [CLEO Collaboration], ‘Di-electron widths of the $\Upsilon(1S, 2S, 3S)$ resonances,’ Phys. Rev. Lett. **96**, 092003 (2006) [arXiv:hep-ex/0512056].
- D. Besson *et al.* [CLEO Collaboration], ‘Measurement of the direct photon momentum spectrum in $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ decays,’ Phys. Rev. D **74**, 012003 (2006) [arXiv:hep-ex/0512061].

- P. Rubin *et al.* [CLEO Collaboration], “New measurements of Cabibbo-suppressed decays of D mesons in CLEO-c,” Phys. Rev. Lett. **96**, 081802 (2006) [arXiv:hep-ex/0512063].
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- T. K. Pedlar *et al.* [CLEO Collaboration], “Precision measurements of the timelike electromagnetic form factors of pion, kaon, and proton,” Phys. Rev. Lett. **95**, 261803 (2005) [arXiv:hep-ex/0510005].
- S. B. Athar *et al.* [CLEO Collaboration], “Radiative decays of the $\Upsilon(1S)$ to a pair of charged hadrons,” Phys. Rev. D **73**, 032001 (2006) [arXiv:hep-ex/0510015].
- S. Dobbs *et al.* [CLEO Collaboration], “Two photon width of χ_{c2} ,” Phys. Rev. D **73**, 071101 (2006) [arXiv:hep-ex/0510033].
- G. Bonvicini *et al.* [CLEO Collaboration], “Observation of $B_s^* \bar{B}_s^*$ production at the $\Upsilon(5S)$ resonance,” Phys. Rev. Lett. **96**, 022002 (2006) [arXiv:hep-ex/0510034].
- G. S. Adams *et al.* [CLEO Collaboration], “Decay of the $\psi(3770)$ to light hadrons,” Phys. Rev. D **73**, 012002 (2006) [arXiv:hep-ex/0509011].
- T. E. Coan *et al.* [CLEO Collaboration], “First observation of $\psi(3770) \rightarrow \gamma\chi_{c1} \rightarrow \gamma\gamma J/\psi$,” Phys. Rev. Lett. **96**, 182002 (2006) [arXiv:hep-ex/0509030].
- G. S. Huang *et al.* [CLEO Collaboration], “Search for exclusive multi-body non- $D\bar{D}$ decays at the $\psi(3770)$,” Phys. Rev. Lett. **96**, 032003 (2006) [arXiv:hep-ex/0509046].
- N. E. Adam *et al.* [CLEO Collaboration], “Observation of $\psi(3770) \rightarrow \pi\pi J/\psi$ and measurement of $\Gamma_{ee}(\psi(2S))$,” Phys. Rev. Lett. **96**, 082004 (2006) [arXiv:hep-ex/0508023].
- P. Rubin *et al.* [CLEO Collaboration], “Observation of the $1P_1$ state of charmonium,” Phys. Rev. D **72**, 092004 (2005) [arXiv:hep-ex/0508037].
- Q. He *et al.* [CLEO Collaboration], “Search for rare and forbidden decays $D^+ \rightarrow h^\pm e^\mp e^+$,” Phys. Rev. Lett. **95**, 221802 (2005) [arXiv:hep-ex/0508031].
- G. S. Huang *et al.* [CLEO Collaboration], “Absolute branching fraction measurements of exclusive D^+ semileptonic decays,” Phys. Rev. Lett. **95**, 181801 (2005) [arXiv:hep-ex/0506053].
- M. Artuso *et al.* [CLEO Collaboration], “First evidence and measurement of $B_s^* \bar{B}_s^*$ production at the $\Upsilon(5S)$,” Phys. Rev. Lett. **95**, 261801 (2005) [arXiv:hep-ex/0508047].
- M. Artuso *et al.* [CLEO Collaboration], “Improved measurement of $\mathcal{B}(D^+ \rightarrow \mu^+\nu)$ and the pseudoscalar decay constant f_{D^+} ,” Phys. Rev. Lett. **95**, 251801 (2005) [arXiv:hep-ex/0508057].
- Z. Li *et al.* [CLEO Collaboration], “Measurement of the branching fractions for $J/\psi \rightarrow \ell^+\ell^-$,” Phys. Rev. D **71**, 111103 (2005) [arXiv:hep-ex/0503027].
- T. E. Coan *et al.* [CLEO Collaboration], “Absolute branching fraction measurements of exclusive D^0 semileptonic decays,” Phys. Rev. Lett. **95**, 181802 (2005) [arXiv:hep-ex/0506052].
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