

FULL CURRICULUM VITAE

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Personal Information:

Born: Mestre (Venezia), ITALY - 12 July 1953

Permanent Resident of United States of America

Married, one child born in 1992

Education:

Ph.D. Physics, Northwestern University (1986)

Laurea Engineering, Politecnico di Milano (1978)

Professional Employment:

2005 – Present Professor of Physics, Syracuse University
2000 – 2004 Associate Professor of Physics, Syracuse University
1994 – 1999 Assistant Professor of Physics, Syracuse University
1991 – 1993 Research Assistant Professor of Physics, Syracuse University
1988 – 1991 Research Associate, Lab. of Nuclear Studies, Cornell University
1988 – 1989 Lecturer of Physics, Physics Department, Cornell University
1986 – 1988 Research Associate, Columbia University
1978 – 1980 Design Engineer, SGS-ATES, Castelletto di Settimo Milanese, Italy
1978 Lecturer in Nuclear Electronics, Politecnico di Milano, Milan, Italy

Appointments:

1986 – 1988 Visiting Fellow, Laboratory of Nuclear Studies,
1979 – 1980 Scientific Associate, CERN, Geneva, Switzerland
1979 Part Time Research Associate, INFN, Milan, Italy
1978 Scientific Consultant, CESNEF, Politecnico di Milano, Milan, Italy

Publications

The publications are organized into four major themes related to different aspects of my research work: detector development, design and construction, nuclear and intermediate energy physics (mostly done during my Ph.D. work), heavy flavor physics data analysis, new experiment initiatives and study groups on the future of the area of particle physics that I am interested in. Within each group, the publications are listed in chronological order. I have annotated some of the publications that represent the major highlights of my scholarly work during the last four years.

Publications related to electronics and detector development

These papers document my work in novel detector technologies and electronics for elementary particle physics experiments. This is an area of research that I have pursued throughout my career and where I have established my leadership with two major projects, the CLEO Ring Imaging Cherenkov detector, now operational, and the BTeV RICH, now in its research and development stage. I have played an active role in the research described in all the papers listed below, I have actually written many of them. I will annotate a few of the most recent ones, written since my last promotion.

- A1. *Transport properties of natural diamond as a nuclear particle detector for a wide temperature range*
F. Nava and C. Canali, (University of Modena) and M. Artuso, E. Gatti and P.F. Manfredi, CESNEF, Politecnico di Milano,
IEEE Trans. on Nucl. Sci. Vol. NS-6, 308(1979).
- A2. *Balanced feedback, voltage sensitive preamplifier featuring low noise and high CMRR*
M. Artuso and P.F. Manfredi,
Nucl. Instrum. & Methods 163, 531 (1979).
- A3. *Interwoven grid wires for second coordinate readout in MWPC*
E. Gatti (Milan Polytechnic), H. Okuno (Brookhaven), M. Artuso,
Nucl. Instrum. & Methods 167, 417 (1979).
- A4. *A vertex detector working as an active target in multi-hadron production on nuclei*
E. Albini et al.,
Nucl. Instrum. & Methods 178, 49 (1980).
- A5. *High rate pulse processing systems for silicon active targets*
M. Artuso et al.,
Invited paper – 10th International symposium on Nuclear Electronics, Dresden 1980.
Nucl. Electronics 2, 24 (1980).
- A6. *Analysis of open-loop feedforward compensations for wideband monolithic operational amplifiers*
M. Artuso et al.
Alta Frequenza 51,197 (1982).

- A7. *Studies of performance and resolution of double sided silicon strip detectors*
 J.P. Alexander et al.
 IEEE Trans. NS-38, 263 (1990).
- A8. *Design and tests for CLEO-II Silicon Vertex Detector*
 J.P. Alexander et al.
 Presented at 6th European Symp. on Semiconductor Detectors, Milan, Italy, Feb 24-26, 1992.
 Nucl. Instrum. & Methods, A326, 243 (1993).
- A9. *The CLEO II Detector*
 Y. Kubota et al.,
 Nucl. Instrum. & Methods, A320, 66 (1992).
- A10. *The CLEO-II Silicon Vertex Detector Data Acquisition System*
 J. P. Alexander et al.,
 CLNS 92/1175, October 1992, 3pp.
 To be published in the proceedings of the Nuclear Science Symposium, Orlando, Florida,
 October 26-31, 1992.
- A11. *A Fast RING Imaging Detector for the CLEO Upgrade*
 M. Artuso and Y. Mukhin in proceedings of the 1st Workshop on RICH Detectors, Bari, Italy,
 1993.
 T. Ypsilantis ed.
 Nucl. Instrum. & Methods, 0A343, 319 (1994).
- A12. *Fast Ring Imaging detectors for forward b collider experiments*
 M. Artuso and Y. Mukhin in proceedings of the Workshop on B Physics at Hadron Accelerators,
 Snowmass, Colorado.
 P. McBride and C. Shekar Mishra eds.
- A13. *LIF/TEA RICH for CLEO-III Particle I.D.*
 M. Artuso et al., HEPSY 94-7, October 1994.
 Presented at Division of Particles & Fields '94, Albuquerque, New Mexico, August 1994.
- A14. *Studies of double-sided, double metal silicon strip detectors*
 J. P. Alexander et al.,
 Nucl. Instrum. & Methods, A342, 282 (1994).
- A15. *Luminosity Measurement with the CLEO II Detector*
 with the CLEO Collaboration, G. Crawford et al.
 Nucl. Inst. & Methods A345, 429 (1994).
- A16. *Monte Carlo Studies of a Novel LiF Radiator for RICH Detectors*
 A. Efimov et al.
 Nucl. Instrum. & Methods, A365, 285 (1995).
- A17. *The Ring Imaging Detector for CLEO III*
 M. Artuso
 Nucl. Instrum. & Methods, A371, 324 (1996).

- A18. *The Ring Imaging Detector for CLEO III*
Nuovo Cimento, 109A, 1035 (1996).
- A19. *Beam Tests of the CLEO III LiF - TEA Ring Imaging Cherenkov Detector*
M. Artuso et al.
ICFA Instr. Bull. 15, 3 (1997).
- A20. *The CLEO III Ring Imaging Cherenkov Detector*
M. Artuso et al.
Nucl. Instrum. & Methods, A409, 375 (1998).
- A21. *Test beam results from the CLEO III LiF-TEA RICH*
M. Artuso et al.
Nucl. Instrum. & Methods, A419, 577 (1998).
- A22. *Performance of the CLEO III LiF-TEA ring imaging Cherenkov detector in a high-energy muon beam*
M. Artuso et al. [CLEO RICH Group]
Nucl. Instrum. & Methods, A441, 374 (2000). *This paper describes the performance of a portion of the CLEO Ring Imaging Cherenkov detector in a test beam. I have written the section describing the electronics design and its performance, as well as contributing to the other sections. This is one of the key publications documenting the design and performance of this unique detector.*
- A23. *Study of the spatial resolution achievable with the BTeV pixel sensors*
M. Artuso and J. Wang
Nucl. Instrum. & Methods, A465, 115 (2000). [arXiv:hep-ex/0007054]. *This paper documents the work done in collaboration with research associate J. Wang to develop an optimal geometry and readout scheme with the BTeV pixel detector. Our study was critical to the geometry and readout architecture chosen by the experiment.*
- The two following papers are written submission to conference proceedings. Being published in a well known journal, they are subject to the regular peer review that is customary for this journal.*
- A24. *The CLEO-III ring imaging Cherenkov detector*
M. Artuso et al. [CLEO RICH Group]
Nucl. Instrum. & Methods, A461, 545 (2001). [arXiv:hep-ex/0008007]
- A25. *The BTeV Pixel Detector and Trigger System*
M. Artuso et al. [BTeV Collaboration]
Nucl. Instrum. & Methods, A462, 249 (2001).
- A26. *Beam Test of BTeV Pixel Detectors* item J. C. Wang et al. [BTeV Collaboration]
Nucl. Instrum. & Methods, A473, 119 (2001). [arXiv:hep-ex/0011075]

- A27. *Performance of prototype BTeV silicon pixel detectors in a high energy pion beam*
J. A. Appel et al. [BTeV Pixel Group]
Nucl. Instrum. & Methods, [A485](#), 411 (2002). [arXiv:hep-ex/0108014].
This paper summarizes an extensive experimental work in the early stages of the BTeV pixel detector research and development. I have played a leadership role in developing the predictions validated by these measurements, in the data analysis and in the writing of the paper
- The following two papers are written submission to conference proceedings. Being published in a well known journal, they are subject to the regular peer review that is customary for this journal.*
- A28. *The BTeV Pixel Detector System*
M. Artuso et al. [BTeV Collaboration]
Nucl. Instrum. & Methods, [A501](#), 131 (2003).
- A29. *Construction, pattern recognition and performance of the CLEO III LiF-TEA RICH detector*
Nucl. Instrum. & Methods, [A502](#), 91 (2003).

Publications related to participation in nuclear physics experiments

- B1. *Determination of the Relative Sign of Neutron and Proton Transition Matrix Element for the $^{34}\text{S}(0 \rightarrow 2_2^+)$ Transition*
A. Saha et al.
Phys. Rev. Lett. 52, 1876 (1984).
- B2. *A precision test of charge independence of hadronic interactions*
Marina Artuso,
Los Alamos Publication LA-10834-T, Ph. D. Thesis (1986).
- B3. *Exotic Nucleus Helium⁹ and its excited states*
K.K. Seth et al.
Phys. Rev. Lett. 58, 1930 (1987).
- B4. *Negative pion nucleus elastic scattering at 30 MeV and 50 MeV*
K.K. Seth et al.,
Phys. Rev. C41, 2800 (1990).
- B5. *Performance of the CLEO III LiF-TEA ring-imaging Cherenkov detector in a high energy muon beam*
with the CLEO Collaboration, M. Artuso et al.
Nucl. Instrum. & Methods, A441, 374 (2000).

Published Papers in High Energy Physics

These papers are mostly related to physics analysis results that are the outcome of the CLEO experiments. The author list includes all the experimenters that are active part of the collaboration. The collaborating institution order is chosen at random and within each institution the author list is alphabetical. This is indicative of the fact that these papers are the outcome not only of the individual effort of the group that performed the analysis reported, but also of the collective effort to build the apparatus that is used in the measurements and to insure that the data are of good quality. I will annotate the papers written after my last promotion that discuss results of physics analysis topics that I pursued with my students or postdoctoral research associates or that review my critical perspective on key topics in heavy flavor phenomenology.

- C1. *Observation of the Charmed Strange Baryon Ξ_c^0*
with the CLEO collaboration, P. Avery et al.,
Phys. Rev. Lett. 62, 863 (1989).
- C2. *Σ_c^{++} and Σ_c^0 Production from e^+e^- Annihilation in the γ Energy Region*
with the CLEO collaboration, T. Bowcock et al.,
Phys. Rev. Lett. 62, 1240 (1989).
- C3. *$B^0\bar{B}^0$ Mixing at the $\Upsilon(4S)$*
with the CLEO Collaboration, M. Artuso et al.,
Phys. Rev. Lett. 62, 2233 (1989).

- C4. *Search for a Neutral Higgs Boson in B Meson Decay*
with the CLEO collaboration, M. S. Alam et al.,
Phys. Rev. D40, 712 (1989).
- C5. *Search for the Production of Fractionally Charged Particles in e^+e^- Annihilations at $\sqrt{s} = 10.5$ GeV*
with the CLEO collaboration, T. Bowcock et al.,
Phys. Rev. D40, 263 (1989).
- C6. *Measurement of the Muonic Branching Fractions of the $\Upsilon(1S)$ and $\Upsilon(3S)$*
with the CLEO collaboration, W.-Y. Chen et al.,
Phys. Rev. D39, 3528 (1989).
- C7. *Search for $b \rightarrow u$ Transitions in Exclusive Hadronic B-Meson Decays*
with the CLEO collaboration, D. Bortoletto et al.,
Phys. Rev. Lett. 62, 2436 (1989).
- C8. *A Search for Exclusive Penguin Decays of B Mesons*
with the CLEO collaboration, T. Bowcock et al.,
Phys. Lett. B223, 470 (1989).
- C9. *First Observation of Inclusive ψ Production in Υ Decays*
with the CLEO collaboration, R. Fulton et al.,
Phys. Lett. B224, 445 (1989).
- C10. *Measurement of the Isospin Mass Splittings $\Xi_c^+ - \Xi_c^0$*
with the CLEO collaboration, M. S. Alam et al.,
Phys. Lett. B226, 401 (1989).
- C11. *Measurement of D_s Decay Modes*
with the CLEO collaboration, W.-Y. Chen et al.,
Phys. Lett. B226, 192 (1989).
- C12. *Study of the Decay $\bar{B}^0 \rightarrow D^{*+}\ell^{-}\bar{\nu}$*
with the CLEO collaboration, D. Bortoletto et al.,
Phys. Rev. Lett. 63, 1667 (1989).
- C13. *What did we learn about V_{ub} from B decays?*
Presented at XII International Workshop on Weak Interactions and Neutrinos,
Ginosar, Sea of Galilee, Israel, April 1989, Weak Interactions and Neutrinos – 1989, ed. by P.
Singer and G. Eilam, Nucl.Phys. B (Proc. Suppl)13, 261 (1990).
- C14. *Prospect for V_{ub} determination from B semileptonic decays*
Marina Artuso, Cornell University, Lab. Nuclear Studies Preprint CLNS 89/953, Sep 1989.
Published in Syracuse B Factory Workshop, 1 (1989).
- C15. *Measurement of $\gamma\gamma$ Widths of Charmonium States*
with the CLEO collaboration, W.-Y. Chen et al.,
Phys. Lett. B243, 169-174, 1990.

- C16. *P-Wave Charmed Mesons in e^+e^- Annihilation*
with the CLEO collaboration, P. Avery et al.,
Phys. Rev. D41, 774 (1990).
- C17. *Radiative $\Upsilon(1S)$ Decays*
with the CLEO collaboration, R. Fulton et al.,
Phys. Rev. D41, 1401 (1990).
- C18. *The Decay $D^0 \rightarrow K^0\bar{K}^0$*
with the CLEO collaboration, J. Alexander et al.,
CLNS 89/940, to be published in Phys. Rev. D.
- C19. *Search for Neutrinoless Decays of the τ Lepton*
with the CLEO collaboration, T. Bowcock et al.,
Phys. Rev. D41, 895 (1990).
- C20. *Observation of B-Meson Semileptonic Decays to Non-Charmed Final States*
with the CLEO collaboration, R. Fulton et al.,
Phys. Rev. Lett. 64, 16 (1990).
- C21. *Exclusive and Inclusive Decays of B Mesons into D_s Mesons*
with the CLEO collaboration, D. Bortoletto et al.,
Phys. Rev. Lett. 64, 2117 (1990).
- C22. *Observation of $\Upsilon(4S)$ Decays into Non- $B\bar{B}$ Final States Containing Ψ mesons*
with the CLEO collaboration, J. Alexander et al.,
Phys. Rev. Lett. 64, 2226 (1990).
- C23. *Study of the Decays $D^0 \rightarrow K\bar{K}, \pi\pi$*
with the CLEO collaboration, J. Alexander et al.,
Phys. Rev. Lett. 65, 1184 (1990).
- C24. *Determination of $B(D_s \rightarrow \phi\pi^+)$ Via Observation of $D_s^+ \rightarrow \phi\ell^+\nu$*
with the CLEO collaboration, J. Alexander et al.,
Phys. Rev. Lett. 65, 1531 (1990).
- C25. *Measurement of the Λ_c^+ Decay Asymmetry Parameter*
with the CLEO collaboration, P. Avery et al.,
Phys. Rev. Lett. 65, 2842 (1990).
- C26. *Study of K^* Production in Tau Decay*
with the CLEO collaboration, M. Goldberg et al.,
Phys. Lett. B251, 223 (1990).
- C27. *Exclusive and Inclusive Semileptonic Decays of B Mesons to D Mesons*
with the CLEO collaboration, R. Fulton et al.,
Phys. Rev. D 43, 651 (1991); CLNS-90-989, Aug 1990.
- C28. *Study of $\pi^+\pi^-$ Transitions From the $\Upsilon(3S)$ and a Search for the h_b*
with the CLEO Collaboration, I. C. Brock et al.,
Phys. Rev. D 43, 1448 (1991); CLNS-90-1031, Dec. 1990.

- C29. *Study of D^0 Decays into Final States with a π^0 or η*
with the CLEO Collaboration, K. Kinoshita et al.,
Phys. Rev. D43, 2836 (1991).
- C30. *Inclusive Production of the Charmed Baryon in $\Lambda_c^+ e^+ e^-$ annihilations at $\sqrt{s} = 10.55$ GeV*
with the CLEO Collaboration, P. Avery et al.,
Phys. Rev. D43, 3599 (1991).
- C31. *Study of Continuum D^{*+} Spin Alignment*
with the CLEO Collaboration, Y. Kubota et al.,
Phys. Rev. D44, 593 (1991).
- C32. *Measurement of the Inclusive B^* Cross Section above the $\Upsilon(4S)$*
with the CLEO Collaboration, D. S. Akerib et al.,
Phys. Rev. Lett. 67, 1692 (1991).
- C33. *Inclusive $\chi(2P)$ Production in $\Upsilon(3S)$ Decay*
with the CLEO Collaboration, R. Morrison et al.,
Phys. Rev. Lett. 67, 1696 (1991).
- C34. *Unusual Decay Modes of D^0 and D^+ Mesons*
with the CLEO Collaboration, R. Ammar et al.,
Phys. Rev. D44, 3383 (1991).
- C35. *Measurement of the Ratio $B(D^0 \rightarrow K^{*+} e^+ \nu_e)/B(D^0 \rightarrow K^- e^+ \nu_e)$*
with the CLEO Collaboration, G. Crawford et al.,
Phys. Rev. D44, 3394 (1991).
- C36. *Inclusive and Exclusive Decays of B Mesons to Final States Including Charm and Charmonium Mesons*
with the CLEO Collaboration, D. Bortoletto et al.,
Phys. Rev. D 45, 21 (1992).
- C37. *Measurement of Baryon Production in B-meson Decay*
with the CLEO Collaboration, G. Crawford et al.,
Phys. Rev. D45, 752 (1992).
- C38. *D_s^+ Decays to $\eta\pi^+$ and $\eta'\pi^+$*
with the CLEO Collaboration, J. Alexander et al.,
Phys. Rev. Lett. 68, 1275 (1992).
- C39. *D_s^+ Decays to $\eta\rho^+$, $\eta'\rho^+$, and $\phi\rho^+$*
with the CLEO Collaboration, P. Avery et al.,
Phys. Rev. Lett. 68, 1279 (1992).
- C40. *Measurements of Semileptonic Branching Fractions of B Mesons at the $\Upsilon(4S)$ resonance*
with the CLEO Collaboration, S. Henderson et al.,
Phys. Rev. D45, 2212 (1992).
- C41. *Two-body D_s Decays to $\eta\pi^+$, $\eta'\pi^+$, $\eta\rho^+$, $\eta'\rho^+$, and $\phi\rho^+$*
with the CLEO Collaboration, M. Daoudi et al.,
Phys. Rev. D45, 3965 (1992).

- C42. *The Electronic Branching Ratio of the τ Lepton*
with the CLEO Collaboration, R. Ammar et al.,
Phys. Rev. D45, 3976 (1992).
- C43. *Observation of the decay $\Xi_c^0 \rightarrow \Omega^- K^+$*
with the CLEO Collaboration, S. Henderson et al.,
Phys. Lett. B283, 161 (1992).
- C44. *Exclusive $\chi(2P)$ production in $\Upsilon(3S)$ decay*
with the CLEO Collaboration, G. Crawford et al.
Phys. Lett. B294, 139 (1992).
- C45. *A measurement of the τ lepton lifetime*
with the CLEO Collaboration, M. Battle et al.
Phys. Lett. B291, 488 (1992).
- C46. *Measurement of τ decays involving η mesons*
with the CLEO Collaboration, M. Artuso et al.
Phys.Rev. Lett. 69, 3278 (1992).
- C47. *Measurement of the $D^*(2010)$ branching fractions*
with the CLEO Collaboration, F. Butler et al.
Phys. Rev. Lett. 69, 2041 (1992).
- C48. *Isospin mass splittings from precision measurements of $D^* - D$ mass differences*
with the CLEO Collaboration, D. Bortoletto et al.
Phys. Rev. Lett. 69, 2046 (1992).
- C49. *Measurement of the Tau Lepton Electronic Branching Fraction*
with the CLEO Collaboration, D. S. Akerib et al.
Phys. Rev. D69, 3610 (1992).
Erratum: Phys. Rev. D71, 3395 (1993).
- C50. *Shape Studies of Quark Jets vs. Gluon Jets at $\sqrt{s} = 10$ GeV*
with the CLEO Collaboration, M. S. Alam et al.
Phys. Rev. D46, 4822 (1992).
- C51. *Lepton Asymmetry Measurements in $\overline{B} \rightarrow D^* l \nu_l$ and Implications for V-A and the Form Factors*
with the CLEO Collaboration, S. Sanghera et al.
Phys. Rev. D47, 791 (1993).
- C52. *Study of D^0 decays into \overline{K}^0 and \overline{K}^{*0}*
with the CLEO Collaboration, M. Procaro et al.
Phys. Rev. D48, 4007 (1993).
- C53. *Tau Decays with One Charged Particle plus Multiple π^0 's"*
with the CLEO Collaboration, M. Procaro et al.
Phys. Rev. Lett. 70, 1207 (1993).

- C54. *A Search for $\tau^- \rightarrow \gamma\mu^-$: A Test of Lepton Number Conservation*
with the CLEO Collaboration, A. Bean et al.
Phys. Rev. Lett. 70, 138 (1993).
- C55. *Search for Exclusive $b \rightarrow u$ Semileptonic Decays of B Mesons*
with the CLEO Collaboration, A. Bean et al.
Phys. Rev. Lett. 70, 2681 (1993).
- C56. *Production and Decay of the $D_{sl}(2536)^+$*
with the CLEO Collaboration, J. P. Alexander et al.
Phys. Lett. B303, 377 (1993).
- C57. *A Measurement of the Tau Lepton Mass*
with the CLEO Collaboration, R. Balest et al.
Phys. Rev. D47, 3671 (1993).
- C58. *A Limit on the Tau Neutrino Mass*
with the CLEO Collaboration, D. Cinabro et al.
Phys. Rev. Lett. 70, 3700 (1993).
- C59. *Evidence for Penguin-Diagram Decays: First Observation of $B \rightarrow K^*(892)\Upsilon$*
with the CLEO Collaboration, R. Ammar et al.
Phys. Rev. Lett. 71, 674-678 (1993).
- C60. *Two Measurements of $B^0\bar{B}^0$ Mixing*
with the CLEO Collaboration, J. Bartelt et al.
Phys. Rev. Lett. 71, 1680 (1993).
- C61. *Study of the Decays $\Lambda_c^+ \rightarrow \Xi^0 K^+$, $\Lambda_c^+ \rightarrow \Sigma^+ K^+ K^-$ and $\Lambda_c^+ \rightarrow \Xi^- K^+ \pi^+$*
with the CLEO Collaboration, P. Avery et al.
Phys. Rev. Lett. 71, 2391 (1993).
- C62. *The $D \rightarrow \pi\pi$ Branching Fractions*
with the CLEO Collaboration, M. Selen et al.
Phys. Rev. Lett. 71, 1973 (1993).
- C63. *Measurement of the ratio $\mathcal{B}(D^+ \rightarrow \pi^0 \ell^+ \nu)/\mathcal{B}(D^+ \rightarrow \bar{K}^0 \ell^+ \nu)$*
with the CLEO Collaboration, M. S. Alam et al.
Phys. Rev. Lett. 71, 1311 (1993).
- C64. *Observation of the Charmed Baryon Σ_c^+ and Measurement of the Isospin Mass Splittings of the Σ_c*
with the CLEO Collaboration, G. Crawford et al.
Phys. Rev. Lett. 71, 3259 (1993).
- C65. *Measurement of Exclusive Λ_c Decays with a Σ^+ in the Final State*
with the CLEO Collaboration, Y. Kubota et al.
Phys. Rev. Lett. 71, 3255 (1993).

- C66. *Measurement of the Decay $\tau^- \rightarrow \pi^- \pi^+ \pi^- 2\pi^0 \nu_\tau$*
with the CLEO Collaboration, D. Bortoletto et al.
Phys. Rev. Lett. 71, 1791 (1993).
- C67. *Analysis of Hadronic Transitions in $\Upsilon(3S)$ Decays*
with the CLEO Collaboration, F. Butler et al.
Phys. Rev. D49, 40 (1994).
- C68. *Observation of B^0 Decay to Two Charmless Mesons*
with the CLEO Collaboration, M. Battle et al.
Phys. Rev. Lett. 71, 3922 (1993).
- C69. *First Measurement of $\Gamma(D_s^+ \rightarrow \mu^+ \nu)/\Gamma(D_s^+ \rightarrow \phi \pi^+)$*
with the CLEO Collaboration, D. Acosta et al.
Phys. Rev. D49, 5690 (1994).
- C70. *Measurement of Charmless Semileptonic Decays of B Mesons*
with the CLEO Collaboration, J. Bartelt et al.
Phys. Rev. Lett. 71, 4111 (1993).
- C71. *Measurement of the Absolute Branching Fraction for $D^0 \rightarrow K^- \pi^+$*
with the CLEO Collaboration, D. S. Akerib et al.
Phys. Rev. Lett. 71, 3070 (1993).
- C72. *Measurement of Cross-Section for $\gamma\gamma \rightarrow p\bar{p}$*
with the CLEO Collaboration, M. Artuso et al.
Phys. Rev. D50, 5484 (1994).
- C73. *Measurements of Exclusive Semileptonic Decays of D Mesons*
with the CLEO Collaboration, A. Bean et al.
Phys. Lett. B317, 647 (1993).
- C74. *Measurement of Two-Photon Production of the χ_{c2}*
with the CLEO Collaboration, V. Shelkov et al.
Phys. Rev. D50, 4265 (1994).
- C75. *Search for Exclusive $b \rightarrow u$ Transitions in Hadronic Decays of B Mesons Involving D_s^+ and D_s^{*+} Mesons*
with the CLEO Collaboration, J. P. Alexander et al.
Phys. Lett. B319, 365 (1993).
- C76. *Search for B^0 Decays to Two Charged Leptons*
with the CLEO Collaboration, R. Ammar et al.
Phys. Rev. D49, 5701 (1994).
- C77. *Observation of $D^0 \rightarrow K^+ \pi^-$*
with the CLEO Collaboration, D. Cinabro et al.
Phys. Rev. Lett. 72, 1406 (1994).

- C78. *Observation of Inclusive B Decays to the Charmed Baryons Σ_c^{++} and Σ_c^0*
with the CLEO Collaboration, M. Procaro et al.
Phys. Rev. Lett. 73, 1472 (1994).
- C79. *Observation of a New Charmed Strange Meson*
with the CLEO Collaboration, J. Kubota, et al.
Phys. Rev. Lett. 72, 1972 (1994).
- C80. *Measurement of the Branching Fraction for $D^+ \rightarrow K^- \pi^+ \pi^+$*
with the CLEO Collaboration, R. Balest et al.
Phys. Rev. Lett. 72, 2328 (1994).
- C81. *Study of the Decay $\Lambda_c^+ \rightarrow \Lambda \ell^+ \nu_\ell$*
with the CLEO Collaboration, T. Bergfeld et al.
Phys. Lett. B323, 219 (1994).
- C82. *Precision Measurement of the $D_s^{+*} - D_s^+$ Mass Difference*
with the CLEO Collaboration, D. N. Brown et al.
Phys. Rev. D50, 1884 (1994).
- C83. *A Measurement of $B(D_s^+ \rightarrow \phi \ell^+ \nu) / B(D_s^+ \rightarrow \phi \pi^+)$*
with the CLEO Collaboration, F. Butler et al.
Phys. Lett. B324, 255 (1994).
- C84. *Study of Charmless B Meson Semileptonic Decays in an Inclusive Model*
M. Artuso
Phys. Lett. B311, 307 (1993).
- C85. *B Meson Semileptonic Decays from $\Upsilon(4S)$ Resonance Data*
M. Artuso in proceedings of the Workshop on B Physics at Hadron Accelerators, Snowmass,
Colorado, 1993.
P. McBride and C. Shekar Mishra eds.
- C86. *Charm Hadronic Decays for Continuum e^+e^- Data in the 10 GeV Region*
M. Artuso in proceedings of the Advanced Study Conference on Heavy Flavours, Pavia, Italy,
1993.
- C87. *Exclusive Hadronic B Decays to Charm and Charmonium Final States*
with the CLEO Collaboration, M.S. Alam et al.
Phys. Rev. D50, 43 (1994).
- C88. *Measurement of Cabibbo-Suppressed Decays of the τ Lepton*
with the CLEO Collaboration, M. Battle et al.
Phys. Rev. Lett. 73, 1079 (1994).
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Publications related to future experimental facilities for b quark physics *An important component of the leadership in our field is the ability to identify future directions for our experimental work and the active engagement in the effort to make these new ideas into real experiments. I have decades of experience in this field, I will annotate the most recent work.*

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- E6. *BTeV: An Expression of interest for a heavy quark program at CØ*
A. Santoro et al.
Fermilab National Acceleratory Laboratory P-0897, May 1997.
- E7. *Flavor Physics: The Flavor Physics (P2) working group ((U))*
M. Artuso, B. Gavela, B. Kayser, C. McGrew, P. Rankin and E. D. Zimmerman
Proceedings of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001), ed. N. Graf, eConf **C010630**, P2001 (2001). *I have been one of the major player in this working group during the Snowmass Summer Study effort and I have written a major portion of this document, that laid out the case for the vibrant and exciting physics that heavy flavor physics will produce during this decade and beyond.*
- E8. *CLEO-C and CESR-C: A New Frontier of Weak and Strong Interactions*
Cornell Preprint CLNS-01-1742, 258 pp., June 2001 *This work documents the effort of the CLEO-c task force that I co-lead. I have also written two sections of this book and I have been one of its editors.*
- E9. *Report of SNOWMASS 2001 Working Group E2: Electron-Positron Colliders from the ϕ to the Z*
Z. Zhao et al.
HEP-ex/0201047, 24 pp., January 2002

Conference, Seminar, Symposium Talks, Lectures

- F1. *What did we learn about V_{ub} from B decays?*
at Int. Workshop on Weak Interactions and Neutrino's, Ginosar, Israel, April 1989.
- F2. *Prospect for V_{ub} determination from B semileptonic decays*
at the Workshop towards Establishing a B Factory, Syracuse, N.Y., September 6-9, 1989.
- F3. *The $D_S \rightarrow \phi\pi$ absolute branching ratio*
at Conference on Weak Decays of Heavy Quarks, Santa Barbara, California, May 21-23, 1990.
- F4. *Techniques for background suppression in $B \rightarrow \pi^+\pi^-$*
at Workshop on Future Directions in B Physics, Ohio State University, May 1991.
- F5. *Cornell B factory physics and detector studies*
at Workshop on the design of a detector for a high luminosity asymmetric B factory, Stanford Linear Accelerator, California, June 10-14, 1991.
- F6. *Prospects for CP Violation Measurements in B Decays*
at XIII International Workshop on Weak Interactions and Neutrino Physics, Laboratorio Nazionale del Gran Sasso, Assergi, Italy, July 8-12, 1991.
- F7. *Determination of V_{ub} from $B \rightarrow X_u l \bar{\nu}$: present status and future perspectives*
at Topical Conference on Heavy Quark Symmetry: Theory and Applications. January 23-25, 1992, Santa Barbara, California.
- F8. *A Fast Ring Imaging Detector for the CLEO Upgrade*
at First Workshop on Rich Detectors, Bari, Italy, June 2-5, 1993.
- F9. *B Meson Semileptonic Decays from $\Upsilon(4S)$ Resonance Data*
at Workshop on b-Physics at Hadron Accelerators, Snowmass, Colorado, June 21-July 2, 1993.
- F10. *Charm Hadronic Decays from Continuum e^+e^- Data in the 10 GeV Region*
at Advanced Study Conference on Heavy Flavours, Pavia, Italy, September 3-7, 1993.
- F11. *Front End Electronics for Ring Imaging Detectors with Cathode Pad Readout*
at 2nd International Meeting on Front End Electronics for Tracking Detectors at Future High Luminosity Colliders, Perugia, Italy, May 19-21, 1994.
- F12. *Hadronic Decays of Charm and Beauty*
at XIV International Conference on Physics in Collisions, Florida State University, Tallahassee, Florida, June 15-17, 1994.
- F13. *The Hadronic Matrix Element in B Decays: Theoretical Approaches and Experimental Studies*
at 8th Meeting of the American Physical Society Division of Particles and Fields, University of New Mexico, Albuquerque, New Mexico, August 2-6, 1994.
- F14. *The Ring Imaging Detector for CLEO III*
at 6th International Symposium on Heavy Flavour Physics, Pisa, Italy, June 5-9, 1995.

- F15. *The Ring Imaging Detector for CLEO III*
at 2nd International Workshop on Ring Imaging Detectors, Uppsala, Sweden, June 12-16, 1995.
- F16. *The Ring Imaging Detector for CLEO III*
at IEEE 1995 Nuclear Science Symposium & Medical Imaging Conference, San Francisco, California, October 21-28, 1995.
- F17. *B decay studies at CLEO*
at Beauty'96 4th International Workshop on B-Physics at Hadron Machines, Rome, Italy, June 17-21, 1996.
- F18. *B decay studies at CLEO: Present Status and Future Perspectives*
at 1997 Aspen Winter Conference on Particle Physics: PARTICLE PHYSICS ENTERS ITS SECOND CENTURY, Aspen, Colorado, January 19-25, 1997.
- F19. *The Ring Imaging Detector for CLEO III*
at 7th Pisa Meeting on Advanced Detectors - Frontier Detectors for Frontier Physics, La Biodola, Isola d'Elba, Italy, May 25-31, 1997.
- F20. *The BTeV Pixel Detector*
at 3rd International Meeting on Front End Electronics for High Resolution Tracking Detectors, Sagebrush Inn, Taos, New Mexico, November 5-8, 1997.
- F21. *The BTeV Pixel Detector*
at The International Pixel Detector Workshop (PIXEL98), Fermi National Accelerator Laboratory, Batavia, Illinois, May 7-9, 1998.
- F22. *Progress Towards CLEO III: The Silicon Tracker*
at XXIX International Conference on High Energy Physics (ICHEP'98), Vancouver, BC, Canada, July 23-29, 1998.
- F23. *The LiF-TEA RICH-Imaging Cherenkov Detector*
at XXIX International Conference on High Energy Physics (ICHEP'98), Vancouver, BC, Canada, July 23-29, 1998.
- F24. *B Physics in the Next Millennium*
at Workshop on Heavy Quarks at Fixed Target (HQ98), Fermi National Accelerator Laboratory, Batavia, Illinois, October 10-12, 1998.
- F25. *Flavour Physics*
Plenary talk at European Physical Society (EPS/HEP'99) International Europhysics Conference on High Energy Physics, Tampere Hall, Tampere, Finland, July 15-21, 1999.
- F26. *Getting ready for CP Violation in B decays*
Invited talk at "Les Rencontres de Physique De La Vallée d'Aoste, La Thuile, Italy, February 26-March 6, 1999.
- F27. *The CLEO III Ring-Imaging Cherenkov Detector*
Invited talk at "Frontier Detectors for Frontier Physics" - 8th Pisa Meeting on Advanced Detectors, La Biodola, Isola d'Elba, Italy, May 21-27, 2000.

- F28. *Study of the Spatial Resolution Achievable with the BTeV Pixel Sensors*
Invited talk at “PIXEL2000”, Genova, Italy, June 5-8th, 2000.
- F29. *The Quest for the Cabibbo Kobayashi Maskawa Matrix*
Invited talk at “7th Int’l Conference on B-Physics at Hadron Machines (BEAUTY2000), Kibbutz Mag’an, Sea of Galilee, Israel, September 2000.
- F30. *The BTeV Pixel Detector and Trigger System*
Invited talk at “7th Int’l Conference on B-Physics at Hadron Machines (BEAUTY2000), Kibbutz Mag’an, Sea of Galilee, Israel, September 2000.
- F31. *Present status of V_{cb} -CKM mini-workshop*
Lawrence Berkeley Laboratory, Berkeley, California, October 2000.
- F32. *Another Look at Charm: The Cleo-c Physics Program*
Invited lecture at Fermi National Accelerator Laboratory, Batavia, Illinois, June 2001.
- F33. *Quark Masses and Mixing*
Invited talk at “APS Snowmass 2001 - A Summer Study on the Future of Particle Physics”, Snowmass Village, Colorado, June 30-July 21, 2001.
- F34. *Another Look at Charm: The CLEO-c Physics Program*
Invited talk at “APS Snowmass 2001 - A Summer Study on the Future of Particle Physics”, Snowmass Village, Colorado, June 30-July 21, 2001.
- F35. *The BTeV Pixel Vertex Detector*
Invited talk at VERTEX 2001, Brunnen, Switzerland, September 2001.
- F36. *CLEO-c as a Window Beyond the Standard Model*
Invited lecture for the Program Advisory Committee Meeting at Cornell University, Ithaca, New York, September 2001.
- F37. *Experimental constraints on the theory of inclusive decays*
Invited talk at “Workshop on the CKM Unitarity Triangle”, CERN, Geneva, Switzerland, February 2002.
- F38. *The Flavor Challenge to the Standard Model*
Plenary talk at DPF2002, College of William and Mary, Williamsburg, Virginia, May 2002.
- F39. *Lepton Energy Moments, OPE Parameters, mb and V_{cb}*
Invited talk at DPF2002, College of William and Mary, Williamsburg, Virginia, May 2002.
- F40. *The BTeV Pixel Detector System*
Invited talk at DPF2002, College of William and Mary, Williamsburg, Virginia, May 2002.
- F41. *The BTeV Detector*
Invited talk at XXXI International Conference in High Energy Physics (ICHEP02), Amsterdam, The Netherlands, July 2002.
- F42. *Heavy Quark and Lepton Physics*
Plenary talk at CIPANP03, Grand Hyatt Hotel, New York City, New York, May 2003.

- F43. *B mesons semileptonic decays*
Invited talk at FPCP 2003, Ecole Polytechnique, Paris, France, June 2003.
- F44. *Future Facilities for charm physics*
Invited talk at FPCP 2003, Ecole Polytechnique, Paris, France, June 2003.
- F45. *CLEO-c charm physics: goals and reach*
Invited talk at CLEO-c Symposium, Cornell University, Ithaca, New York, June 2003.
- F46. *Present status of our knowledge of V_{cb}*
Invited talk at BEAUTY 2003, Carnegie Mellon University, Pittsburgh, Pennsylvania, October 2003.
- F47. *The Ring Imaging Cherenkov Detector for BTeV*
Directorate Review of the BTeV Experiment, Fermilab, Batavia, Illinois, October 2003.
- F48. *The Ring Imaging Cherenkov Detector for BTeV*
Directorate Review of the BTeV Experiment, Fermilab, Batavia, Illinois, March 2004.
- F49. *The Ring Imaging Cherenkov Detector for BTeV*
Directorate and DOE Reviews of the BTeV Experiment, Fermilab, Batavia, Illinois, March 2004.
- F50. *The Ring Imaging Cherenkov Detector for BTeV*
DOE Review of the BTeV Experiment, Fermilab, Batavia, Illinois, April 2004.
- F51. *The Ring Imaging Cherenkov Detector for BTeV*
Directorate Review of the BTeV Experiment, Fermilab, Batavia, Illinois, September 2004.
- F52. *Front end electronics for the BTeV RICH detector*
5th International Workshop on Ring-Imaging Cherenkov Detectors, Playa del Carmen, Mexico, November 2004.
- F53. *The BTeV Ring Imaging Cherenkov Detector; Studies on V_{ub} with the CLEO Experiment; Charm Semileptonic Decay results from CLEO-c*
Invited talks at 10th International Workshop on B-Physics at Hadron Machines (BEAUTY'05), Assisi (Perugia), Italy, June 2005.
- F54. *Charm decays within the Standard Model and Beyond*
Invited plenary talk at 22nd International Symposium on Lepton-Photon Interactions at High Energy (LP'2005), Uppsala, Sweden, July 2005.
- F55. *SM and Beyond: Clues from Recent Charm Measurements*
Invited plenary talk at Particles and Nuclei International Conference (PANIC'05), Santa Fe, New Mexico, October 2005.
- F56. *Novel p-type detector for high radiation resistance radiation applications*
Invited talk at Vertex 2006, Perugia, Italy, September 2006.
- F57. *Extraction of V_{cd} and V_{cs} from charm semileptonic decays*
Invited talk at 4th International CKM2006 Unitarity Triangle Workshop, Nagoya University, Nagoya, Japan, December 2006.

- F58. $D^0\bar{D}^0$ *Quantum Correlations, Mixing, and Strong Phase*
Invited talk at International Europhysics Conference On High Energy Physics, EPS/HEP2007, Manchester, United Kingdom, July 2007.
- F59. *The LHCb VELO Detector: Status and Upgrade Plans*
Invited talk at 2007 IEEE Nuclear Science Symposium & Medical Imaging Conference (2007 NSS/MIC), Honolulu, Hawaii, October 2007.
- F60. *The VELO LHCb Upgrade*
Invited talk at VERTEX 2008, Uto, Sweden, July 2008.

Conference Organization, Committees

- G1. “Session on Heavy Flavor Physics” at 8th Meeting of the American Physical Society Division of Particles and Fields, University of New Mexico, Albuquerque, New Mexico, August 2-6, 1994.
- G2. *“Award for brilliant activity in high energy physics detection techniques”*, 7th Pisa Meeting on Advanced Detectors, La Biodola, Isola d’Elba, Italy, 1997.
- G3. Local organizing committee for the Workshop On Heavy Quarks at Fixed Target (HQ98), Fermi National Accelerator Laboratory, Batavia, Illinois, October 10-12, 1998.
- G4. Panelist on roundtable discussion of status of CKM parameters”, BEAUTY2000, Sea of Galilee, Israel, September.
- G5. Co-leader of “Tau Charm Task Force”, CLEO Collaboration, 2000.
- G6. Co-leader “ V_{cb} discussion, PDG Workshop, Berkeley, California, October 2000.
- G7. Co-convener “P2 Quark Physics Working Group”, SNOWMASS 2001, Snowmass, Colorado.
- G8. Co-convener “Beyond the Standard Model”, CLEO-c Workshop, Cornell University, Ithaca, New York, May 5-7, 2001.
- G9. Member of Particle Data Group, Lawrence Berkeley Laboratory, Berkeley, California, 2002-2004.
- G10. Co-convener “Roundtable discussion on the future of flavor physics”, Frascati, Italy, October 2002.
- G11. Co-convener “Heavy quark and lepton physics”, CIPANP03, New York City, New York, May 2003.
- G12. Member of the International Scientific Advisory Committee (ISAC) of the International RICH Workshop, 2003 to present.
- G13. Co-convener of two working groups at the 4th International CKM2006 Unitarity Triangle Workshop, Nagoya University, Nagoya, Japan, December 2006.
- G13. Chair of local organizing committee for “Beauty and Charm Decays: A Window on New Physics - a symposium to celebrate Sheldon Stone’s 60th birthday”, Syracuse University, Syracuse, New York, May 2006.
- G14. Co-chair International and local organizing committee for the 16th International Workshop on Vertex Detectors (Vertex2007), Crowne Plaza Resort, Lake Placid, New York, September 2007.
- G15. International organizing committee for the 17th International Workshop on Vertex Detectors (Vertex2008), Utö Island, Sweden, July 27-August 1, 2008.
- G16. Co-chair local organizing committee for the Flavor Physics & CP Violation Conference (FPCP’2009), Crowne Plaza Resort, Lake Placid, New York, May 2009.

- G17. International advisory committee for TIPP'09 - The 1st International Conference on Technology and Instrumentation in Particle Physics, 2009.
- G18. International advisory committee for VERTEX'2009 - 18th International Workshop on Vertex Detectors, 2009.

Professional Activities

- CLEO-c task force co-leader, 2000-2001
- Scientific Program Awards Committee, CLEO-c Workshop, May 2001
- Pixel Mechanical Design Review Committee, November 2001
- BTeV experiment technical board member 2001-2005
- BTeV Ring Imaging Cherenkov Detector L2 Manager, 2002-2005
- Member of Fermilab Directorate Review Panel of CMS forward pixel detector, February 2003
- CLEO Representative in the Heavy Flavor Averaging Group (Particle Data Group) 2002 to present
- CLEO Analysis Group Co-leader “Leptonic and Semileptonic decays of charmed mesons”, 2003-2004
- Member of RSVP Review Panel, NSF, February 2004
- Member of CERN RD50 International Collaboration, “Radiation hard semiconductor devices for very high luminosity colliders”, 2002 to present.
- Co-director of WISE Program (Women in Science and Engineering), 2003 to present
- Elected member of the Fermilab User Executive Committee, 2004 & 2005
- Member of the Fermilab BTeV Program Management Group, 2004
- Referee for Physical Review Letters, Physical Review D, and IEEE Transactions in Nuclear Science, 2004
- Referee for Physical Review Letters, Physical Review D, Physics Letters B, and Nuclear Instruments and Methods, 2005
- Referee for Physical Review Letters, Physical Review D, and Nuclear Instruments and Methods, 2006 & 2007
- Director of WISE Program (Women in Science and Engineering), 2006
- LHCb Velo Test Beam Coordinator, 2006 to present
- Member of SLAC Annual H.E.P. Program Review, June 2006 & June 2007
- Referee for Physical Review Letters, Physical Review D, JINST, Nuclear Instruments & Methods, IEEE Nuclear Science Symposium, 2008
- Elected member of HEPAP (DOE Advisory committee on High Energy Physics), 2008
- Member of National Science Foundation and Department of Energy Grant Review Committees, 2008
- Referee for PRD, PRL, Jinst; NSF S4 DUSEL Review Panel; NSF Rutgers Site visit (Chairperson of the panel); Referee for ARRA Stimulus Act Grants; Spokesperson for Experiment T971

(test beam of irradiated Si VELO Detectors at Fermilab); Editorial board of Vertex'2009, 2009

- Member of University Senate; Co-chair of the Senate Committee on Women's Concerns; Co-leader of Women in Science and Engineering; WISE FPP Faculty Liaison/Mentor; Speaker on WISE FPP Panel on Work Life Balance, 2009

Grants and Awards

- “Award for brilliant activity in high energy physics detection techniques”, 7th Pisa Meeting on Advanced Detectors, La Biodola, Isola d’Elba, Italy, (1997)
- Principal Investigator NSF Grant “POWRE: Development of Pixel Detector Devices for Heavy Quark Physics” (1998-2000)
- Co-principal Investigator NSF Grant “Heavy Quark Physics” (Base grant 1998-2001, supported four faculty in the group)
- Co-principal Investigator NSF Grant “Heavy Quark Physics” (Base grant 2001-2004, supports four faculty and one research faculty in the group)
- Co-principal Investigator NSF Grant “BTeV Research and Development (2004-2005, supports three NSF funded universities to do BTeV R & D)
- Principal Investigator NSF Grant “MRI: Development of High Granularity Position Sensitive Single Photon Detector System” (2004-2005)
- Co-principal Investigator NSF Grant “Heavy Quark Physics” (2004-2007, supports four faculty and one research faculty)
- Co-principal Investigator NSF Grant “Charm Physics at CLEO-c, Beauty Physics at LHCb” (2006-2009, supports four faculty and one research faculty)
- Co-principal Investigator NSF Grant “Offline Detector Monitoring and Calibration for the LHCb Experiment” (2006-2008, supports four faculty)
- Co-principal Investigator NSF Grant “Vertex 2007 - 16th International Workshop on Vertex Detectors”, hosted by Syracuse University, Lake Placid, NY, September 23-28, 2007.
- “Chancellor’s Citation for Faculty Excellence and Scholarly Distinction”, Syracuse University, 2008.
- Fellow of the American Physical Society, 2008.
- Co-principal Investigator NSF Grant “Beauty at LHCb, Charm Physics at CLEO-c: ARRA” (2009-2012).
- Principal Investigator NSF Grant: “MRI: Development of Hybrid Pixel Modules for the LHCb Upgrade: ARRA” (2009-2012).