

James Hayden Thomas

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Education and Employment:

University of California

Physicist, The Berkeley Laboratory	1997 – 2022
Physicist, The Livermore Laboratory	1989 – 1996
SRA, The Los Alamos Laboratory	Summers '76 & '77

California Institute of Technology

Sr. Research Fellow in Physics	1986 – 1988
Millikan Prize Fellowship	1983 – 1986
Postdoctoral Fellow	1982 – 1983

Yale University

Ph. D. in Nuclear Physics	1982
Master of Philosophy	1979
Master of Science	1977

Washington State University

Bachelor of Science	1976
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Activities:

Program Director for Nuclear Physics, National Science Foundation, 2018-2021
Principle Investigator at LBL for the HFT, SSD & iTPC projects, 2011-2017
Chair, 2008 Fall Meeting of the Division of Nuclear Physics; Member 2012 Committee
American Physical Society member of the DNP Program committee, '02-'03, '07-08
American Physical Society member of the DNP Nominating Committee, 2004-2006
Program Head, Relativistic Nuclear Collisions Program at the Berkeley Lab, 2005-2006
STAR Deputy Spokesperson, 2002-2005; STAR Deputy Project Director, 1997
Group Leader for Heavy Ion Physics at the Livermore Laboratory, 1992-1996
Head of the Magnet Systems for PHENIX, Executive and Detector Councils, 1991-1996
Member and Chair, Lab Wide LDRD Program, the Livermore Lab, 1990-1992
Spokesperson, Caltech-Livermore Experimental Gravity Collaboration, 1988-1991

Honors:

STAR Emeritus, 2023; Chair, RHIC and AGS Users Group: 2016-2018 & 2000-2002
Visiting Professor, Extreme Matter Institute, GSI Helmholtzzentrum, Darmstadt, 2009-2010
Ranked #1 by Thomson Reuters: Most author citations for decade 2000-2010, Hadron Colliders
Fellow of the American Physical Society, 2005; LBL Merit Service Award, 2006
Physics Distinguished Achievement, 1993: Special Contributions to the Laboratory
Physics Distinguished Achievement, 1990: Outstanding Scientific Publication
Fellow of the College, University of Queensland, Australia, 1989
Robert Andrews Millikan Prize Fellowship, California Institute of Technology, 1983-86
A.W. Wright Fellow 80-82; Yale Fellow 77-78; Phi Beta Kappa; Phi Kappa Phi
Over 350 professional publications, > 75 invited talks, > 25 publications for the public
Organized and Chaired numerous meetings on heavy ion physics
Coach/Mentor for the Robotics Team at E.L.VanderMeulen High School, 2001-2018
BBC-TV Program "Defying Gravity", 1989

Professional Experience

Summary: Ph.D. in Nuclear Physics. Broad background in the scientific disciplines. Forty years of experience in scientific research, teaching, R&D, and R&D management. Scientific group leader. Experienced manager of R&D proposals and funding. Experienced manager of large and small scale science and engineering projects.

Management Experience:

- Program Director for Nuclear Physics at the National Science Foundation
- Program Head for the Relativistic Nuclear Collisions group at the Berkeley Lab, Chair RHIC and AGS Users Group; Deputy Spokesperson for the STAR collaboration
- Principle Investigator at LBL for the STAR Heavy Flavor Tracker project (HFT), Silicon Strip Detector (SSD), and Inner TPC sector upgrades (iTPC)
- Project Manager for three major spectrometer systems for the PHENIX experiment at RHIC; including design, build, funding, manpower selection, scheduling, and reporting for 2000 tons of magnets and steel
- Supervised the Relativistic Heavy Ion Group at the University of California's Livermore Lab and developed funding from the DOE Office of Science
- Chaired the Laboratory Wide Competition for laboratory directed research and development (LDRD) at the University of California's Livermore Lab
- Principle Investigator for the Caltech-Livermore studies of Non-Newtonian gravity

Research & Technical Experience:

- Over 350 professional publications, > 75 invited talks, > 25 pubs for the public
- Authored papers in relativistic heavy ion physics, $\beta\beta$ neutrino physics, nuclear structure and astrophysics, accelerator mass spectroscopy, and gravitation
- First experiments with STAR at RHIC, and ALICE at the LHC
- First experiment to demonstrate agreement with Newton's theory of gravitation in boreholes and tall towers in the era of the "Fifth Force". Measurements made at the Nevada Test Site.
- Fundamental studies with liquid Argon and liquid & solid Xenon for double beta decay experiments
- Designed, built, and operated large, complex, instruments and detector systems for low energy and high energy nuclear physics experiments
- Programmed complex data acquisition systems for data taking and analysis

Teaching & Service:

- Organized numerous international conferences and collaboration meetings
- Referee of articles for the Physical Review, reviewer of proposals for the DOE and the NSF, as well as various International Organizations
- Mentor and Advisor for PD Associates, Graduate and High School Students
- Taught general physics and laboratory courses at Yale and Caltech
- Coach/Mentor US First Robotics Team at E.L. VanderMeulen High School
- BBC-TV "Antennae" Series on gravitation

Publications

1977

"Laser Target Retropulse Isolation Using an Aperture in Vacuum", R.F. Benjamin, D.B. Henderson, K.B. Mitchell, M.A. Stroschio and J. Thomas, *Applied Physics Letters* **31**, 511(1977).

1980

"High Spin States and a 230 ns Isomer in ^{153}Ho ", D.C. Radford, M. Rosenthal, P.D. Parker, and J.H. Thomas, *Proceedings of the International Conference on Nuclear Behavior at High Angular Momentum*, Strasbourg, France, 1980.

1981

"Direct Observation of a High Spin $^{12}\text{C}+^8\text{Be}$ Cluster State in ^{20}Ne ", Cluster State in ^{20}Ne ", M.M. Hindi, J.H. Thomas, D.C. Radford, and P.D. Parker, *Physics Letters* **99B**, 33 (1981).

"Improvements in an Accelerator Based Mass Spectrometer for measuring ^{10}Be ", J. Thomas, A. Mangini, and P. Parker, *IEEE Transactions on Nuclear Science* **NS-28**, 1478 (1981).

^{10}Be in Manganese Nodules", J. Thomas, P. Parker, A. Mangini, K. Cochran K. Turekian, S. Krishnaswami, and P. Sharma, *Proceedings of the Symposium on Accelerator Mass Spectroscopy*, Argonne, 1981.

1982

^{10}Be and Thorium Isotopes in Manganese Nodules and Adjacent Sediments", S. Krishnaswami, A. Mangini, J. Thomas, P. Sharma, J.K. Cochran, K.K. Turekian, and P.D. Parker, *Earth and Planetary Science Letters* **59**, 217 (1982).

1983

"Tandem Accelerator Mass Spectrometry of ^{26}Al from an Iron Meteorite", J. Thomas, P. Parker, G. Herzog, and D. Pal, *Nuclear Instruments and Methods* **211**, 511(1983).

"Very High Spin States and Isomerism in ^{153}Ho ", D.C. Radford, M.S. Rosenthal, P.D. Parker, J.A. Cizewski, J.H. Thomas, B. Haas, F.A. Beck, T. Byrski, J.C. Merdinger, A. Nourredine, Y. Schutz, J.P. Vivien, J.S. Dionisio, and Ch. Vieu, *Physics Letters* **126B**, 24 (1983).

"Cluster Structure of 8p-4h States in ^{20}Ne ", M.M. Hindi, J.H. Thomas, D.C. Radford, and P.D. Parker, *Phys. Rev. C* **27**, 2902 (1983).

^{10}Be Concentration and the Long Term Fate of Particle-Reactive Nuclides in Five Soil Profiles from California", M.C. Monaghan, S. Krishnaswami, and J.H. Thomas, *Earth and Planetary Science Letters* **65**, 51 (1983).

"Accelerator Based Mass Spectrometry of Semiconductor Materials", J.M. Anthony and J. Thomas, *Nuclear Instruments and Methods* **218**, 463 (1983).

1984

"Half life of ^{26}Al ", J.H. Thomas, R. Rau, R.T. Skelton, and R.W. Kavanagh, Phys. Rev. C **30**, 385 (1984)

1985

"Precision Energy Level Measurements in ^{158}Gd , Investigation of a Possible Neutrino Balance", J. Thomas and J. LoSecco, Phys. Rev. C **31**, 577 (1985).

"Sub-barrier Fusion of ^{16}O with ^{16}O and ^{18}O ", J. Thomas, Y.T. Chen, S. Hinds, K. Langanke, D. Meredith, M. Olson, and C.A. Barnes, Phys. Rev. C **31**, 1980 (1985).

"Investigation of K Shell Electron Capture in ^{158}Tb ", J. LoSecco, J. Thomas, D.F. DeJongh, B. Yip, J. Gimlett, T. Altzitzoglou, and R.A. Naumann, Phys. Rev. Lett. **54**, 2317 (1985).

1986

"Sub-barrier Fusion of the Oxygen Isotopes: A More Complete Picture", J. Thomas, Y.T. Chen, D. Meredith, S. Hinds, and M. Olson, Phys. Rev. C **33**, 1679(1986).

"A Comparison of the Hauser-Feshbach Theory with an Exact Treatment of the Theory of Compound Nuclear Reactions", J. Thomas, M.R. Zirnbauer, and K. Langanke, Phys. Rev. C **33**, 2197 (1986).

1987

"Recombination of Electron-Ion Pairs in Liquid Argon and Liquid Xenon", J. Thomas and D. Imel, Phys. Rev. A **36**, 614 (1987).

"Double Beta Decay in ^{136}Xe ", J. Thomas and M.Z. Iqbal, *Proceedings of the Int. Symposium on Nuc. Beta Decay and the Neutrino*, Osaka, World Scientific Inc., Singapore (1987).

"A Time Projection Chamber for Observing Double Beta Decay in ^{136}Xe ", J. Thomas, M.Z. Iqbal, H. Henrikson, L.W. Mitchell, B. O'Callaghan, H. Wong, and F. Boehm, *Proceedings of the Seventh Moriond Workshop*, Les Arcs, Editions Frontieres, Gif sur Yvette (1987).

"Design and Construction of a High Pressure Xenon Time Projection Chamber", M.Z. Iqbal, H.E. Henrikson, L.W. Mitchell, B.M.G. O'Callaghan, J. Thomas, and H.T-k. Wong, Nuclear Instruments and Methods **A259**, 459 (1987).

"Real Time Data Acquisition for a Time Projection Chamber Using a High Speed DEC-LSI to UNIX UDP-TCP/IP Interface", J. Thomas, M. Douglas, R. Watanabe, H.E. Henrikson, M.Z. Iqbal, L.W. Mitchell, B.M.G. O'Callaghan, H.T-k. Wong, and J. Melvin, IEEE Transactions on Nuclear Science **NS-34**, 845 (1987).

1988

"Design, Construction, and Performance of a Liquid Xenon and Liquid Argon Ionization Chamber Detector", D.A. Imel and J. Thomas, *Nuclear Instruments and Methods* **A273**, 291 (1988).

"Gravity Anomalies at the Nevada Test Site", J. Thomas, P. Vogel, and P. Kasameyer in *Proceedings of the Eighth Moriond Workshop*, Les Arcs, Editions Frontieres, Gif sur Yvette (1988).

"Statistics of Charge Collection in Liquid Argon and Liquid Xenon", J. Thomas and D. Imel, *Phys. Rev. A* **38**, 5793 (1988).

1989

"Measured Free Air Gradients do not Agree with Model Gravity Gradients at the Nevada Test Site", J. Thomas, *et al.*, *Proceedings of the Fifth Marcel Grossman Meeting on General Relativity*, pg. 1573, World Scientific, 1989.

"A High Pressure Ionization Chamber to Observe $\beta\beta$ -Decay in ^{136}Xe ", D.A. Imel and J. Thomas, *Nuclear Instruments and Methods* **B40/41**, 1208 (1989).

"A Test of Newton's Law of Gravity Using the BREN Tower", P. Kasameyer, *et al.*, *Proceedings of the Ninth Moriond Workshop*, Les Arcs, Editions Frontieres, Gif sur Yvette (1989).

"Testing the Inverse Square Law of Gravity: Error and Design with the Upward Continuation Integral", J. Thomas, *Phys. Rev. D* **40**, 1735 (1989).

"Testing the Inverse Square Law of Gravity on a 465 Meter Tall Tower at the Nevada Test Site", J. Thomas, *et. al.*, *Phys. Rev. Lett.* **63**, 1902 (1989).

1990

"New Results From Nevada", J. Kammeraad, *et al.*, *Proceedings of the Tenth Moriond Workshop*, Les Arcs, Editions Frontieres, Gif sur Yvette (1990).

"A Test of Newton's Inverse-Square Law of Gravity", J. Kammeraad, *et al.*, *Energy and Technology Review*, March, 9 (1990).

"Testing the Inverse Square Law of Gravity in Boreholes at the Nevada Test Site", J. Thomas, P. Vogel, *Phys. Rev. Lett.* **65**, 1173 (1990).

"Testing the Inverse Square Law of Gravity in Boreholes at the Nevada Test Site: Errata", J. Thomas, P. Vogel, *Phys. Rev. Lett.* **65**, 2478 (1990).

"Calorimeter/Absorber Optimization for a RHIC DiMuon Experiment", S. Aronson *et al.*, *Proceedings: 4th Workshop on Exp. and Detectors for RHIC*, C90-07-02.2, p423-431.

1991

"New Limit on Neutrinoless Double Beta Decay in ^{136}Xe with a Time Projection Chamber", H.T. Wong, *et al.*, *Phys. Rev. Lett.* **67**, 1218 (1991).

"First 0-Upsilon Half Life Limit from the Gothard Xenon TPC", H.T. Wong, *et al.*, *J. of Phys. G* **17**, 165 (1991).

1992

"Target Rapidity Proton Distributions for Si+A Collisions at the AGS", J. Costales, *et al.*, Nucl. Phys. A **544**, 445 (1992).

"Recent Results from E802 and E859", W. A. Zajc, *et al.*, Nuc. Phys. A **544**, 237 (1992).

"Particle Production at High Pt in Si+A Collisions at 14.6 GeV/N", B. Cole, *et al.*, Nucl. Phys. A **544**, 553 (1992).

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"PHENIX Preliminary Conceptual Design Report", S. Nagamiya *et al.*, BNL-Proposal R2 (1992).

1993

"Bose-Einstein Correlation of Kaons in Si+Au Collisions at 14.6 GeV/c", Y. Akiba, *et al.*, PRL **70**, 1057 (1993).

"A Phoswich Array for Relativistic Heavy Ion Collisions", J.B. Costales, *et al.*, NIM **A330**, 183 (1993).

"Search for Neutrinoless Double Beta Decay in Xe-136 with a Time Projection Chamber", J. L. Vuilleumier, *et al.*, Phys Rev D **48**, 1009 (1993).

"The PHENIX Conceptual Design Report", S. Nagamiya, *et al.*, 1993.

"PHENIX CDR Update", S. Nagamiya, *et al.*, 1993.

"The PHENIX Experiment at RHIC", *Proceedings of the Workshop on Pre-Equilibrium Parton Dynamics*, Berkeley, Ca, 1993, X.N. Wang ed., LBL-34831.

1994

"Global Transverse Energy Distributions in Si+Al at 14.6 GeV/c and Au+Au at 11.6 GeV/c", L. Ahle, *et al.*, Physics Letters B **332**, 258-264 (1994).

"Calorimeter Absorber Optimization for a RHIC Dimuon Experiment", E. Cornell, *et al.*, NIM **A350**, 150-173 (1994).

"A Facility to Study Proton-Nucleus and Heavy Ion Collisions Using a Large Acceptance Detector with Particle Identification Capabilities", B. Cole, *et al.*, BNL-Proposal-910 (1994).

"Backward Emission of Protons in Au+Au Collisions at 11.7 GeV/c", M.N. Namboodiri *et al.*, Nucl. Phys. A **566**, 443 (1994).

"Recent Results from E859 Using Si Beams at 14.6 GeV/c", G.S.F. Stephans, Nucl. Phys. A **566**, 269 (1994).

1995

"A Guide to the High Energy Heavy Ion Experiments", J. Thomas and P. Jacobs, UCRL-ID-119181, 100 pages (1995). [Printed and distributed to 500 attendees at the Quark Matter '95 Conference in Monterey, CA and to DOE and NSF funding agencies.]

"Summary of the Pre-Conference Workshop: Physics with Collider Detectors at RHIC and LHC", T.J. Hallman and J. Thomas, Nucl. Phys. A **590**, 399 (1995).

"Recent Results from Experiment E859 at the BNL AGS", B. Cole, *et al.*, Nucl. Phys. A **590**, 179 (1995).

"Physics with the Collider Detectors at RHIC and the LHC, Proceedings of the Pre-Conference Workshop", J. Thomas and T. Hallman eds., UCRL-ID-121571, 226 pages (1995). [Printed and distributed to 500 attendees at the Quark Matter '95 Conference in Monterey, CA and to DOE and NSF funding agencies.]

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"The PHENIX Detector Magnet Subsystem", R.M. Yamamoto, *et al.*, Proceedings of the Fourteenth International Conference on Magnet Technology, Finland, June 1995. UCRL-JC-119083.

1996

"Production of Phi Mesons in Central $^{28}\text{Si} + ^{196}\text{Au}$ Collisions at 14.6-A/GeV/c", Y. Akiba *et al.*, PRL **76**, 2021 (1996).

"Particle Production in Au+Au Collisions from BNL E866", Y. Akiba *et al.*, Nuc. Phy. **A610**, 139 (1996).

"The Centrality Dependence of the Source Size for Au-Au Collisions at the AGS", M. Baker *et al.*, Nuc. Phys. **A610**, 213 (1996).

"The PHENIX Detector Magnet SubSystem", R.M. Yamamoto *et al.*, IEEE Trans. Magnetics **32**, 2140 (1996).

1997

"Two Particle Rapidity Correlations from the Bose Einstein Effect in Central $^{28}\text{Si} + ^{196}\text{Au}$ Collisions at 14.6-A/GeV/c", Y. Akiba *et al.*, PRC **56**, 1544 (1997).

"Hadron Production in Au+Au Collisions at 4-A-GeV from AGS-E866", L. Ahle *et al.*, Prog. Theor. Phys. Suppl. **129**, 173 (1997).

1998

"Proton, Deuteron, and Triton emission at Target Rapidity in Au+Au Reactions at 10 GeV-A; Spectra and Directed Flow", L. Ahle *et al.*, PRC **57**, 1416 (1998).

"Particle Production at High Baryon Density in Central Au+Au Reactions at 11.6 GeV-A/c", L. Ahle *et al.*, PRC **57**, 466 (1998).

"Kaon Production in Au+Au Collisions at 11.6 GeV", L. Ahle *et al.*, PRC **58**, 3523 (1998).

“Centrality and Collision System Dependence of Anti-Proton Production from p+A to Au+Au Collisions at AGS Energies”, L. Ahle *et al.*, Nuc. Phys. **A638**, 427 (1998).

“Au+Au Reactions at the AGS: Experiments E866 and E917”, C.A. Ogilvie *et al.*, Nuc. Phys. **A638**, 57 (1998).

“Spin Physics with the PHENIX Detector System”, N. Saito *et al.*, Nuc. Phys. **A638**, 575 (1998).

“The PHENIX Experiment at RHIC”, D.P. Morrison *et al.*, Nuc. Phys. **A638**, 565 (1998).

“Anti-Proton Production in Au+Au Collisions at 11.7 A GeV/c”, L. Ahle *et al.*, PRL **81**, 2650 (1999).

“Recent developments on the STAR detector system at RHIC”, H. Wieman *et al.*, Nucl. Phys. **A638** (1998) 559C-563C.

1999

“Simultaneous Multiplicity and Forward Energy Characterization of Particle Spectra in Au+Au Collisions at 11.6 GeV”, L. Ahle *et al.*, PRC **59**, 2173 (1999).

“Centrality Dependence of Kaon Yields in Si+A and Au+Au Collisions at the AGS”, L. Ahle *et al.*, Phys. Rev. **C60** 044904 (1999), LBNL-50756.

“Deuterons and Space Momentum Correlations in High Energy Nuclear Collisions”, B. Monreal *et al.*, Phys. Rev. **C60** 031901 (1999), LBNL-43555.

“Measuring Centrality with Slow Protons in Proton Nucleus Collisions at the AGS”, I. Chemakin *et al.*, Phys. Rev. **C60** 024902 (1999).

“Proton and Deuteron Production in Au + Au Reactions at 11.6/A-GeV/c”, L. Ahle *et al.*, Phys. Rev. **C60** 064901 (1999).

“The STAR Time Projection Chamber”, Ackermann *et al.*, Nuc. Phys. **A661**, 681 (1999).

“Particle Production at the AGS: An Excitation Function”, L. Ahle *et al.*, Nuc. Phys. **A661** 472 (1999).

2000

“Centrality Dependence of Pi-Production and Stopping in p-A Collisions at 18 GeV/c”, I. Chemakin *et al.*, e-Print Archive: nucl-ex/9902009.

“Semi-inclusive Lambda and K(S) Production in p-Au Collisions at 17.5-GeV/c”, I. Chemakin *et al.*, Phys.Rev.Lett.**85**, 4868 (2000). e-Print Archive: nucl-ex/0003010, LBNL-48549.

2001

“Systematics of Midrapidity Transverse Energy Distributions in Limited Aperatures from p+Be to Au+Au Collisions at Relativistic Energies” T. Abbott *et al.*, Phys. Rev. **C63**, 064602 (2001).

“Mid-Rapidity Anti-Proton to Proton Ratio from Au + Au Collisions at $\sqrt{s} = 130$ GeV”, STAR Collaboration (C. Adler *et al.*), Phys. Rev. Lett. **86**, 4778 (2001). e-Print Archive: nucl-ex/0104022, LBNL-47250.

“Centrality Dependence of Charged Particle Multiplicity in Au+Au Collisions at $S(NN)^{1/2} = 130$ GeV”, PHENIX Collaboration (K. Adcox *et al.*), Phys. Rev. Lett. **86**, 3500 (2001). e-Print Archive: nucl-ex/0012008, BNL-68068.

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“Measurement of the Midrapidity Transverse Energy Distribution from $S(NN)^{1/2} = 130$ -GeV Au+Au Collisions at RHIC”, PHENIX Collaboration (K. Adcox *et al.*), Phys. Rev. Lett. **87**, 052301 (2001), e-Print Archive: nucl-ex/0104015.

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“Multiplicity Distribution and Spectra of Negatively Charged Hadrons in Au+Au Collisions at $S(NN)^{1/2} = 130$ -GeV”, STAR Collaboration (C. Adler *et al.*), Phys. Rev. Lett. **87**, 112303 (2001), e-Print Archive: nucl-ex/0106004, LBNL-48515.

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“Anti-Deuteron and Anti-He-3 Production in $S(NN)^{1/2} = 130$ -GeV Au+Au Collisions”, STAR Collaboration (C. Adler *et al.*), Phys. Rev. Lett. **87**, 262301 (2001), Erratum-ibid. **87**, 279902 (2001), e-Print Archive: nucl-ex/0108022, LBNL-49302.

“Measurement of Inclusive Anti-Protons from Au+Au Collisions at $(S(NN))^{1/2} = 130$ -GeV”, STAR Collaboration (C. Adler *et al.*), Phys. Rev. Lett. **87**, 262302 (2001), e-Print Archive: nucl-ex/0110009, LBNL-49209.

2002

“Inclusive soft pion production from 12.3 and 17.5 GeV/ c protons on Be, Cu, and Au”, I. Chemakin *et al.*, Phys. Rev. **C65**, 024904 (2002). e-Print Archive: nucl-ex/0108007.

“A TPC for Measuring High Multiplicity Events at RHIC”, J. Thomas, Nucl. Instrum. Meth. **A478**, 166 (2002).

“Suppression of Hadrons with Large Transverse Momentum in Central Au+Au Collisions at $S(NN)^{1/2} = 130$ -GeV”, PHENIX Collaboration (K. Adcox *et al.*), Phys. Rev. Lett. **88**, 022301 (2002), e-Print Archive: nucl-ex/0109003.

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“Centrality Dependence of π^+/π^- , K^+/π^- , P and Anti-P Production from $S(NN)^{1/2} = 130$ -GeV Au+Au Collisions at RHIC”, PHENIX Collaboration (K. Adcox *et al.*), Phys. Rev. Lett. **88**, 242301 (2002), e-Print Archive: nucl-ex/0112006.

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“Results from the STAR Experiment”, STAR Collaboration (C. Adler *et al.*) Nucl. Phys. **A698**, 64-77 (2002).

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arXiv:1905.06075 [hep-ex], [10.1103/PhysRevD.100.052009](https://arxiv.org/abs/10.1103/PhysRevD.100.052009).

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By STAR Collaboration (Jaroslav Adam et al.).

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Measurement of inclusive J/PSI suppression in Au+Au collisions at $\sqrt{s} = 200$ GeV through the dimuon channel at STAR”

By STAR Collaboration (Jaroslav Adam et al.).

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“Charge-dependent pair correlations relative to a third particle in p+Au and d+Au collisions at RHIC”

By STAR Collaboration (J. Adam et al.).

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2020

“Measurement of the mass difference and the binding energy of the hypertriton and antihypertriton”

By STAR Collaboration (Jaroslav Adam et al.).

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By STAR Collaboration (Jaroslav Adam et al.).

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By STAR Collaboration (Jaroslav Adam et al.).

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By STAR Collaboration (Jaroslav Adam et al.)

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“Measurement of D^0 -meson + hadron two-dimensional angular correlations in Au+Au collisions at $\sqrt{s} = 200$ GeV”

By STAR Collaboration (Jaroslav Adam et al.)

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By STAR Collaboration (Jaroslav Adam et al.)

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“Measurement of inclusive J/Psi polarization in p+p collisions at 200 GeV by the STAR experiment”

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2021 Publications

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By STAR Collaboration (Jaroslav Adam et al.)

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Phys. Rev. D 103 (2021) no.1, 012001

“Measurements of Dihadron Correlations Relative to the Event Plane in Au+Au Collisions at $\sqrt{s} = 200$ GeV”

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“Global polarization of Xi and Omega hyperons in Au+Au collisions at $\sqrt{s} = 200$ GeV”

By STAR Collaboration (Jaroslav Adam et al.)

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By STAR Collaboration (Jaroslav Adam et al.)

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“Comparison of transverse single-spin asymmetries for forward π^0 production in polarized pp, pAl and pAu collisions at nucleon pair c.m. energy $\sqrt{s} = 200$ GeV”

By STAR Collaboration (Jaroslav Adam et al.)

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“Cumulants and Correlation Functions of Net-proton, Proton and Antiproton Multiplicity Distributions in Au+Au Collisions at RHIC”

STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.

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“Invariant Jet Mass Measurements in p-p Collisions at $\sqrt{s} = 200$ GeV at RHIC”

STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.

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“Measurement of the sixth-order cumulant of net-proton multiplicity distributions in Au+Au collisions at $\sqrt{s} = 27, 54.4,$ and 200 GeV at RHIC”

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2022 Publications

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STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.
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STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.
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Phys. Rev. Lett. **128** (2022) no.12, 122303

"Differential measurements of jet substructure and partonic energy loss in Au+Au collisions at $\sqrt{s} = 200$ GeV"
STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.
arXiv: 2109.09793 [nucl-ex], DOI: 10.1103/PhysRevC.105.044906
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"Measurement of inclusive electrons from open heavy-flavor hadron decays in p-p collisions at $\sqrt{s} = 200$ GeV with the STAR detector"
STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.
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STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.
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"Light nuclei collectivity from $\sqrt{s} = 3$ GeV Au+Au collisions at RHIC"
STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.
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"Probing Strangeness Canonical Ensemble with K-, phi(1020) and Xi- Production in Au+Au Collisions at $\sqrt{s} = 3$ GeV"
STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.
arXiv: 2108.00924 [nucl-ex], DOI: 10.1016/j.physletb.2022.137152
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“Measurements of Proton High Order Cumulants in $\sqrt{s} = 3$ GeV Au+Au Collisions and Implications for the QCD Critical Point”

STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.

arXiv: 2112.00240 [nucl-ex], DOI: 10.1103/PhysRevLett.128.202303

Phys. Rev. Lett. **128** (2022) 202303

“Measurements of H3L and H4L Lifetimes and Yields in Au+Au Collisions in the High Baryon Density Region”

STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.

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“Longitudinal double-spin asymmetry for inclusive jet and dijet production in polarized proton collisions at $\sqrt{s} = 510$ GeV”

STAR Collaboration - Mohamed Abdallah (American U., Cairo) et al.

arXiv: 2110.11020 [hep-ex], DOI: 10.1103/PhysRevD.105.092011

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STAR Technical Notes

“Calculating the Transition Energy at RHIC”, J.H. Thomas SN0443

<https://drupal.star.bnl.gov/STAR/starnotes/public/sn0443>

“Correcting for distortions due to ionization in the STAR TPC”, G. VanBuren et al., SN0456

<https://drupal.star.bnl.gov/STAR/starnotes/public/sn0456>

“STAR Tracking Components Review - Stv, CA and AgML”, J. Balewski et al., SN0552

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“Third Harmonic Flow of Charged Particles in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV”

Y. Pandit et al., SN0566

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“The STAR Heavy Flavor Tracker Conceptual Design Report”, D. Beavis et al., SN0600

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“A Proposal for STAR Inner TPC Sector Upgrade (iTPC)”,

The STAR Collaboration, SN0619

<https://drupal.star.bnl.gov/STAR/starnotes/public/sn0619>

“Technical Design Report for the iTPC Upgrade”, The STAR Collaboration, SN0644

<https://drupal.star.bnl.gov/STAR/starnotes/public/sn0644>

ALICE Technical Notes

“The Langevin equation expanded to 2nd order and comments on using the equation to correct for space point distortions in a TPC”, M. Mager, S. Rossegger and J. Thomas, Alice Internal Note, 2010, ALICE-INT-2010-016.

url: <https://edms.cern.ch/file/1108138/1/ALICE-INT-2010-016.pdf>

“Space charge effects in the ALICE TPC: a comparison to the STAR TPC”, S. Rossegger and J. Thomas, Alice Internal Note, 2010, ALICE-INT-2010-017.

url: <https://edms.cern.ch/file/1113087/1/ALICE-INT-2010-017.pdf>

“Composed correction framework for modeling the TPC field distortions in AliRoot”, M. Mager, S. Rossegger and J. Thomas, Alice Internal Note, 2010, ALICE-INT-2010-018.

url: <https://edms.cern.ch/file/1113105/1/ALICE-INT-2010-018.pdf>

Invited Talks

1986

"Double Beta Decay in ^{136}Xe ", Int. Symposium on Nuc. Beta Decay and the Neutrino, Osaka Japan, June 1986.

1987

"A Time Projection Chamber for Observing Double Beta Decay in ^{136}Xe , The Seventh Moriond Workshop, Les Arcs France, January 1987.

"Recombination of Electron-Ion Pairs in Liquid Argon and Liquid Xenon", Conference on Low Level Counting in Tracking Liquid Drift Detectors, UCLA, February 1987.

"New Tools for Double Beta Decay Research", The University of Wisconsin, Madison, March 1987.

"Real Time Data Acquisition for a Time Projection Chamber Using a High Speed DEC-LSI to UNIX UDP-TCP/IP Interface", Conference on Real Time Data Acquisition, San Francisco, May 1987.

"New Tools for Double Beta Decay Research", Colloquium, UC Riverside, May 1987.

"New Tools for Double Beta Decay Research", Symposium on Positron Lines, Argonne National Laboratory, November 1987.

1988

"Gravity Anomalies at the Nevada Test Site", The Eighth Moriond Workshop, Les Arcs France, January 1988.

"Gravity Anomalies at the Nevada Test Site", UC Riverside, April 1988.

"Measured Free Air Gradients do not Agree with Model Gravity Gradients at the Nevada Test Site", The Fifth Marcel Grossman Meeting, Perth Australia, August 1988.

"Did Newton's Apple Fall Far Enough", Symposium on Borehole Gravimetry, Colorado School of Mines, September 1988.

"Testing the Inverse Square Law of Gravity", Departmental Colloquium, California Institute of Technology, Pasadena, December 1988.

1989

"Error Analysis and Design with the Upward Continuation Integral", The Ninth Moriond Workshop, Les Arcs France, January 1989.

"Testing the Inverse Square Law of Gravity", The University of Neuchatel, Neuchatel Switzerland, February 1989.

"Testing the Inverse Square Law of Gravity", The Max Planck Institute, Heidelberg, February 1989.

"Testing the Inverse Square Law of Gravity", The Space Telescope Institute, Baltimore, March 1989.

"Testing the Inverse Square Law of Gravity", Yale University, New Haven, March 1989.

"Testing the Inverse Square Law of Gravity", Massachusetts Institute of Technology, Cambridge, May 1989.

"New Results from the BREN Tower Gravity Experiment", GR12 Conference, Boulder, Colorado, July 1989.

"Searching High and Low for the Fifth Force", Lawrence Livermore Laboratory, Livermore, December 1989.

1990

"Searching High and Low for the Fifth Force", Los Alamos National Laboratory, Los Alamos, January 1990.

"Searching High and Low for the Fifth Force", Brookhaven National Laboratory, Brookhaven, March 1990.

1991

"The AGS Heavy Ion Physics Program", Chinese Institute of Atomic Energy, Beijing, September 1991.

1992

"Searching High and Low for the Fifth Force", The Bartol Foundation The University of Delaware, March 1992.

1993

"The PHENIX Experiment at RHIC", Nuclear Science Department Colloquium, Lawrence Berkeley Laboratory, May 1993.

"PHENIX Physics Capabilities", Workshop on Pre-equilibrium Parton Dynamics in Ultra-relativistic Heavy Ion Collisions", LBL, August 1993.

1994

"Searching for the Quark Gluon Plasma with PHENIX at RHIC", SCIPP Colloquium, University of California at Santa Cruz, January 1994.

1995

"Workshop Summary: Collider Detectors at RHIC and the LHC", Quark Matter 95, T.J. Hallman and J. Thomas, Monterey, California (1995).

"A Primer on the PHENIX Experiment", Kellogg Radiation Laboratory Seminars, Caltech, April 1995.

1996

"Long Term Goals for the Center for Accelerator Mass Spectroscopy", LLNL, Aug. 96.

1997

“Gnews: Recent Results on Big G Research”, INPA, LBL May 1997.

“Magnet Distortions in the EOS TPC”, Columbia University, September 1997.

1998

“Catch a Rising STAR”, Nuclear Science Division Weekly, The Berkeley Lab, Jan. 1998.

1999

“T minus 1”, Nuclear Science Division Weekly, the Berkeley Lab, January 1999.

“The STAR Time Projection Chamber”, Quark Matter, Torino, Italy, May 1999.

2000

“The STAR Experiment at RHIC”, Lawrence Livermore Laboratory, May 2000.

2001

“A TPC for Measuring High Multiplicity Events at RHIC”, The Vienna Wire Chamber Conference, Vienna, Austria, February 2001.

“Experimental Highlights from RHIC”, The Electromagnetic Probes of Fundamental Physics Conference, Erice, Italy, October 2001.

“Multiplicity and High Pt: Highlights from RHIC”, Nuclear Physics Colloquium, University of Illinois Champagne-Urbana, December 2001.

2002

“Peripheral Collisions in STAR”, Workshop on Diffraction and Glueball Searches at RHIC, Brookhaven National Laboratory, May 17-18, 2002.

“Highlights from the STAR Experiment at RHIC”, International Conference on High Energy Physics (ICHEP), July 2002, Amsterdam NL.

2003

“Surprises in the RHIC Data”, VIIth International Workshop on QCD, January 2003, Villefrance-sur-mer, France. ePrint Archive: nucl-ex/0305023.

“The STAR Time Projection Chamber and Historical Roots in EOS and NA49”, TPC Symposium in Berkeley, October 2003, Berkeley CA.

2004

“Why Do All Those Damned Detectors Look the Same?”, QuarkMatter, January 2004.

“On the Trail of a Dense Plasma at RHIC”, Cornell University, May 2004.

“A New State of Dense Matter at RHIC”, VECC, Kolkata, September 2004.

“The Past, Present, and Future at RHIC”, QGP Meet 04, Bhubaneswar, October 2004.

2005

- “GridLeak Distortions and all that ...”, STAR Collaboration Meeting, February 2005.
- “The STAR TPC, a look to the future”, TPC Symposium LBNL, March, 2005.
- “The STAR Heavy Flavor Tracker”, RHIC and AGS Users Meeting, BNL, June 2005.
- “The STAR Detector at RHIC”, LBNL Joint Instrumentation Symposium, June 2005.
- “The STAR Heavy Flavor Tracker”, HFT Workshop, LBNL, October 2005.
- “The Heavy Flavor Tracker Scientific Program”, STAR Future Workshop, BNL, Dec. 05.

2006

- “Highlights from the STAR Physics Program”, KirkFest, BNL, March 06.
- “The Future of STAR and PHENIX”, Strange Quark Matter '06, UCLA, March 06.
- “HFT Trigger Requirements”, STAR Topical Meeting, September 06.
- “TPC Distortions at STAR”, STAR Topical Meeting, October 06.
- “The STAR Inner Tracking Upgrades”, USTC, Hefei, November 06.
- “The STAR Heavy Flavor Tracker”, Heavy Flavor Workshop, Tsinghua University, Beijing, November 06.

2007

- “The Heavy Flavor Tracker Physics Program”, Heavy Flavor Workshop, LBL, November 2007.
- “The STAR Physics and Upgrade Plan for Low Energy Running and RHIC II”, RHIC and AGS Users Meeting, BNL, June 07.
- “A Relativistic Nuclear Collision: No Small Matter”, Mexican Workshop on Particles and Fields, Tuxtla, Mexico, November 2007.

2008

- “Energy Loss and Flow at RHIC”, Notre Dame, February, 2008.
- “The Physics Program for the STAR Inner Tracking Upgrades”, Argonne National Laboratory, March 2008.
- “What’s behind that Concrete Wall”, STAR Collaboration Junior’s Meeting, June 2008.
- “Heavy Flavor Upgrades for STAR and PHENIX at RHIC”, Bad Honnef, June 2008.
- “A New State of Matter Discovered at RHIC”, Particle Physics and Astrophysics, Singapore, November 2008.

2009

“STAR Results on Charge Separation Measurements”, RHIC and AGS Users Meeting, BNL, June 2009.

“Latest Results on Parity Violation and Charge Separation Measurements at RHIC”, STAR Analysis meeting, Cambridge, July 2009.

“Future Operation of the STAR TPC – Especially in the pp500 Era”, Department of Energy Science and Technology Review, BNL, July 2009.

“Strong Parity Violation: Recent results on STAR charge separation measurements”, ALICE Club Seminar, CERN, November 2009.

“STAR Experience with TPC Distortion Corrections”, ALICE PWGI presentation, CERN, November 2009.

2010

“Strong Parity Violation at RHIC”, NPP Colloquium, MIT, Cambridge, March, 2010.

“Alice TPC Distortion Corrections Using Physical Models”, ALICE Physics Week, Paris, May, 2010.

“Why Do All Those Damned Detectors Look the Same”, CERN Student Symposium, July, 2010.

“SpaceCharge Buildup in a TPC”, NA51 Collaboration meeting, CERN, July, 2010.

“Strong Parity Violation: A Summary of STAR Charge Separation Measurements”, WPCF2010, Kiev, September, 2010.

“A Summary of STAR Charge Separation Measurements”, Nuclear and Particle Physics Colloquium, IPHC Strasbourg, September, 2010.

2011

“The STAR Silicon Strip Detector”, Director’s Seminar, Subatech, Ecole des Mines, Nantes, May 2011.

“The STAR Heavy Flavor Tracker”, ALICE Upgrade Workshop, CERN, June 2011.

Poster: “Three Particle Correlations as a Probe of Eccentricity Fluctuations”, Quark Matter, Annecy, June 2011.

“Charge Asymmetry Measurements at ALICE”, PANIC, MIT, Cambridge MA, July 2011.

“An Inner Sector Upgrade for the STAR TPC”, STAR Upgrades Workshop, UCLA, December 2011.

2012

“HFT Update and Progress Report”, RNC Group Meeting, Berkeley, March 2012.

“HFT Update and Progress Report”, UIC, June 2012.

2013

“iTPC Upgrade”, UCLA, December 2012, “iTPC Upgrade”, BNL, March 2013.

“LBL Core Competencies”, RNC Long Range Plan Meeting, Berkeley, February 2013.

“HFT Update and Progress Report”, RNC Group Meeting, Berkeley, May 2013.

2014

“HFT Update and Progress Report”, RNC Group Meeting, Berkeley, March 2014.

“iTPC Upgrade & Progress”, RNC Long Range Plan Meeting, Berkeley, March 2014.

“STAR Upgrades for the BES II era at RHIC”, RHIC and AGS Users Mtg, June, 2014.

2015

“iTPC Update and Progress Report”, BNL, April 2015

2016

“iTPC Update and Progress Report”, RNC Group Meeting, Berkeley, March 2016.

“The Nucleus as a Laboratory to do Fundamental Physics”, STAR Juniors Meeting, Ohio State University, August 2016.

2017

“iTPC Update and Progress Report”, RNC Group Meeting, Berkeley, March 2017.

2018

“The Chiral Magnetic Effect”, Colloquium, UC Riverside, January 2018.

“Isobaric Beams at RHIC”, STAR Juniors Meeting, Berkeley, January 2018.

2019

RHIC and AGS Users Meeting – Report from the NSF

Users Organization at Jefferson Lab Annual Meeting – Report from the NSF

Low Energy Community Meeting – Report from the NSF

The Astronomy and Astrophysics Advisory Committee (AAAC) - “Windows on the Universe Multi-Messenger Astrophysics”

2020

RHIC and AGS Users Meeting – Report from the NSF

Users Organization at Jefferson Lab Annual Meeting – Report from the NSF

Low Energy Community Meeting – Report from the NSF

2021

American Physics Society Spring Meeting, DNP Business – Report from the NSF

RHIC and AGS Users Meeting – Report from the NSF

Users Organization at Jefferson Lab Annual Meeting – Report from the NSF

Service Activities

1988

Flight Readiness Review Panel, Balloon Flights to Observe SN 1987a, NASA Jet Propulsion Laboratory, August 1988.

1990

LLNL Institutional Research and Development Lab Wide Review Committee, May 1990.

1991

LLNL Laboratory Directed Research and Development Lab Wide Review Committee (Vice Chairman), May-June 1991.

DiMuon Collaboration Executive Committee, May-Dec. 1991.

PHENIX Collaboration Central Design Group: Co-Chair of the Tracking group, 1991-92

1992

LLNL Laboratory Directed Research and Development Lab Wide Review Committee (Chairman), January-August 1992.

PHENIX Collaboration Detector Council: Head of the Magnet System

Editor of the PHENIX Newsletter

Editor and Publisher of the PHENIX Technical Notes

1993

PHENIX Collaboration Detector Council: Head of the Magnet System

Editor of the PHENIX Newsletter

Editor and Publisher of the PHENIX Technical Notes

1994

Quark Matter 95, Local Organizing Committee

PHENIX Collaboration Detector Council: Head of the Magnet System

PHENIX Collaboration Executive Council - Elected to represent the DC

Editor of the PHENIX Newsletter

Editor and Publisher of the PHENIX Technical Notes

LLNL Library Committee

1995

Workshop on Collider Detectors at RHIC and the LHC, Chair Organizing Committee

PHENIX Collaboration Detector Council: Head of the Magnet System

PHENIX Collaboration Executive Council - Elected to represent the DC

LLNL Library Committee

Editor and Publisher of the PHENIX Technical Notes

Service (cont.)

1996

Workshop on Zero Degree Calorimeters at PHENIX & RHIC, Chair Organizing Committee

PHENIX Collaboration Detector Council: Head of the Magnet System

PHENIX Collaboration Executive Council - Elected to represent the DC

LLNL Library Committee

Lawrence Berkeley National Laboratory - member of the Nuclear Science Division Staff Search Committee

1997

STAR Collaboration: Deputy Project Director

STAR Collaboration: Chair of the STAR Safety Committee

STAR Collaboration: Member of the Technical Committee

BaBar Magnet Mapper Final Design Review, Chair of the review committee, March 97.

LBL Director's Review: The STAR Project

1998

STAR Collaboration: Member of the Technical Committee

RHIC Endgame Committee

Organizational contact for LBL group at BNL

1999

STAR Collaboration: Member of the Technical Committee

AGS/RHIC User Group: Member of the Executive Committee

Convenor – STAR Data Base and Calibrations Group

Organizational contact for LBL group at BNL

Member of the Committee: STAR TOF proposal review

2000

Chair, AGS & RHIC Users Executive Committee

Convenor – STAR Parity Discussion Group

STAR Collaboration: Member of the Operations Committee

Convenor – STAR Data Base and Calibrations Group

Organizational contact for LBL group at BNL

Participant, DOE RHIC Facility Review at BNL

Participant, LBL Directors Review

Service (cont.)

2001

Chair, AGS & RHIC Users Executive Committee

Convenor – STAR Parity Discussion Group

STAR Collaboration: Member of the Operations Committee

Organizational contact for LBL group at BNL

Member, Committee for APS Nominations - APS Division of Nuclear Physics

Reviewer, The Royal Society of New Zealand Marsden Fund

Participant, DOE RHIC Facility Review at BNL

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

2002

Ex-Chair, AGS & RHIC Users Executive Committee

Convenor – STAR Parity Discussion Group

Deputy Spokesperson for the STAR Collaboration

Organizational contact for LBL group at BNL

Member, Committee for APS Nominations - APS Division of Nuclear Physics

Member, Program Committee – APS Division of Nuclear Physics

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

2003

Deputy Spokesperson for the STAR Collaboration

Head, STAR Detector Oversight

Chair, STAR Trigger Board

Member, Committee for APS Nominations - APS Division of Nuclear Physics

Member, Program Committee – APS Division of Nuclear Physics

Member, Quark Matter 2004 Organizing Committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

2004

Deputy Spokesperson for the STAR Collaboration

Head, STAR Detector Oversight

Member, Committee for APS Nominations - APS Division of Nuclear Physics

Member, DNP Nominating Committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

Service (cont.)

2005

Program Head for Relativistic Nuclear Collisions Group

Deputy Spokesperson for the STAR Collaboration

Member, Committee for APS Nominations - APS Division of Nuclear Physics

Member, DNP Nominating Committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

2006

Program Head for Relativistic Nuclear Collisions Group

Member, DNP Nominating Committee

LBL Procurement Committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

2007

Member, DNP Program Committee

Chair, 2008 Fall DNP Organizing Committee

Chair, UPC God Parent Committee

Member, STAR Advisory Board

LBL Procurement Committee

NSD Safety Committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

2008

Member, DNP Program Committee

Chair, 2008 Fall DNP Organizing Committee

Member, STAR Advisory Board

STAR Silicon Strip Detector Liaison to the HFT project

LBL Procurement Committee

STAR Forward GEM Tracker, member of the STAR review committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

Chair, God Parent Committee review of STAR UPC paper

Member, God Parent Committee review of 2nd UPC paper

TPC Hardware Sub-system manager

Service (cont.)

2009

Organizer, STAR TPC Review, June 2009

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

Member, God Parent Committee review of Hyper-triton paper

Speaker – 2009 S&T Review July 2009

Speaker – TPC Gas Safety Review July 2009

TPC Hardware Sub-system manager

DOE RIB Review Panel, August 2009

2010

Chair, God Parent Committee, Measurement of Charge Asymmetry Correlations

Member, ALICE Internal Review Committee for First Flow paper

Jury de thèse, Université de Strasbourg

2011

Project Manager for the STAR Silicon Strip Detector Upgrade

Chair, STAR Talks Committee

Chair, STAR Shift Crew Certification Board

Chair, God Parent Committee, “Measurement of Charge Asymmetry Correlations ...”

Member, DNP12 organizing committee

Member, Alice Paper Preparation Group for CME paper

Member, STAR Integrated Tracking Review panel

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

STAR Upgrades group leader for the RNC program at LBL

2012

Project Manager for the STAR Silicon Strip Detector Upgrade

Member, DNP12 organizing committee

Chair, STAR Talks Committee

Member, STAR Shift Crew Certification Board

Member, RHIC and AGS Users Executive Committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

STAR Upgrades group leader for the RNC program at LBL

Principal Investigator for the Heavy Flavor Tracker Project at LBL

Service (cont.)

2013

Project Manager for the STAR Silicon Strip Detector Upgrade

Chair, STAR Talks Committee

Member, RHIC and AGS Users Executive Committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

STAR Upgrades group leader for the RNC program at LBL

Principal Investigator for the Heavy Flavor Tracker Project at LBL

2014

Project Manager for the STAR Silicon Strip Detector Upgrade

Member, RHIC and AGS Users Executive Committee

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

Member, ePHENIX LOI review committee

Principal Investigator for the Heavy Flavor Tracker Project at LBL

Consultant, iTPC upgrade project

2015

Project Manager for the STAR Silicon Strip Detector Upgrade

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

Deputy Project Manager, iTPC upgrade project

Consultant, Particle Data Group

Chair, iTPC Technical Design Report and Risk Review writing group

2016

Project Manager for the STAR Silicon Strip Detector Upgrade

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

Deputy Project Manager, iTPC upgrade project

Member/Author, BNL Associate Director's Chiral Magnetic Effect task force & Report

Local Organizing Committee, Strange Quark Matter 2016, Berkeley

Chair Elect, RHIC and AGS Users Group

Reviewer, sPHENIX TPC preliminary cost and schedule review, July 2016

Member, sPHENIX Management Group (PMG)

Service (cont.)

2017

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

Deputy Project Manager, iTPC upgrade project

Chair, RHIC and AGS Users Executive Committee

Member, sPHENIX Management Group (PMG)

Reviewer, United States – Israel Foundation (Nuclear Physics funding proposal)

Chair – sPHENIX Directors Review for the Si Tracking system

2018

Coach/Mentor for the US First Robotics team at E. L. Vandermeulen High School

Consultant, STAR iTPC upgrade project

Chair, RHIC and AGS Users Executive Committee

Member, sPHENIX Management Group (PMG)

Reviewer for the National Science Foundation and the Physical Review

2019

Program Director for Experimental Nuclear Physics at the National Science Foundation

2020

Program Director for Experimental Nuclear Physics at the National Science Foundation

2021

Program Director for Experimental Nuclear Physics at the National Science Foundation

2022

Chair, Local committee to prepare APS Fellowship material

Editor, Nuclear Science Division Quarterly Newsletter

Conference Organization

E859 Collaboration Meeting, October 1990 - 60 attendees
RD10 Collaboration Meeting, June 1993 - 40 attendees
PHENIX Collaboration Meeting, October 1993 - 80 attendees
Workshop on Collider Detectors at RHIC and the LHC, January 1995 - 180 attendees
Quark Matter 95, January 1995 - 550 attendees
Workshop on Zero Degree Calorimeters in PHENIX & RHIC, 1996 - 30 attendees.
STAR Collaboration Meeting, January 1998 – 100 attendees
AGS/RHIC Annual Users Meeting, July 1999 – 200 attendees
AGS/RHIC Users Meeting, Asilomar CA, October 1999 – 90 attendees
AGS/RHIC Annual Users Meeting, August 2000 – 300 attendees
AGS/RHIC Users Meeting, Williamsburg VA, October 2000 – 100 attendees
AGS/RHIC Users Meeting, Washington DC, April 2001 – 80 attendees
AGS/RHIC Annual Users Meeting, August 2001 – 300 attendees
APS/DNP Mini-symposium on Gluon Saturation, October 2002 – 80 attendees
APS/DNP Mini-symposium on High Pt Physics at RHIC, October 2002 – 100 attendees
APS/DNP Mini-symposium on Elliptic Flow, October 2003.
APS/DNP Mini-symposium on Jet Quenching and Quark Matter, October 2003
Quark Matter 2004, Oakland, CA January 2004 – 650 attendees
STAR Regional Collaboration Meeting in India, September 2004 – 200 attendees
APS/DNP Workshop on QCD Probes of Dense Matter at RHIC, Hawaii 2005
APS/DNP Workshop on the Spin of the Nucleon, Hawaii 2005 – 150 attendees
STAR Heavy Flavor Workshop, LBNL, October 2005 – 60 attendees
TPC Symposium, LBNL, April 2006
APS/DNP Mini-Symposium on DiJets and Correlations in Heavy Ion Physics, Oct. 2007
APS/DNP Mini-symposium on Studying the Orbital Structure of the Proton, Oct. 2007
APS/DNP Mini-symposium on DiJets and Correlations in HI Collisions, April, 2008
DNP Fall Meeting 2008, Chair of the Local Organizing Committee.
APS/DNP Workshop on Quantifying the Character of the sQGP, Oct. 2008
APS/DNP Mini-symposium on the Properties of the Ridge, Oct. 2008
STAR TPC Review, June 2009.
DNP Fall Meeting 2012, Member of the Local Organizing Committee
Strange Quark Matter 2016, Member of the Local Organizing Committee
RHIC and AGS Users Meeting 2017, Chair of the Organizing Committee
RHIC and AGS Users Meeting 2018, Member of the Organizing Committee (exChair)

Popular and Semi-Popular Press

Television:

1989

BBC-TV Antenna Series, "Defying Gravity", 28 minutes, Directed by Danna Purvis, Aired March 10, 1989.

1990

KPIX Ch. 5 (San Francisco), "Newton Must be Smiling", 4 minutes, Directed by Bill Hillman, Aired August n, 1990.

Newspapers, Newsmagazines, Journals, and Electronic Media:

1988

THE WASHINGTON POST, "Greenland Test may Outweigh Newton's Theories on Gravity", by Boyce Rensberger, August 1, (1988).

Previous article was syndicated and appeared in several national newspapers including the SACRAMENTO BEE, August 2, A11(1988), etc.

Previous article was excerpted and enlarged and appeared in several Inter-national Newsmagazines including DER SPIEGEL **33**, 167(1988), and L'EXPRESS.

TIME Magazine, "Was Sir Isaac All Wet?", by John Langone, August 15, 67(1988)

SCIENCE, "Was Newton Wrong?", by Robert Pool, **241**, 789(1988).

1989

PHYSICS TODAY, "Search and Discovery", by Bertram Schwarzschild, (1989).

CERN COURIER, "Physics Monitor", (1989).

SAN JOSE MERCURY NEWS, "Local Team Disputes Fifth Force", by Dan Stober, October 31, (1989).

VALLEY TIMES, "Without the Aid of Apples, Lab Backs up Newton", by Keith Rogers, October 31, 3A(1989).

THE SAN FRANCISCO EXAMINER, "Only Four Forces be With Us", by Keay Davidson, October 31, A-4(1989).

SCIENCE, "Faith in Fifth Force Fades", by Mitchell Waldrop, **246**, 760(1989).

1990

CERN COURIER, "Physics Monitor", (1990).

VALLEY TIMES, "Study Challenges Latest Theory", Science Watch Column, September 20, (1990).

ENERGY and TECHNOLOGY REVIEW, "A Test of Newtons's Inverse-Square Law of Gravity", by J. Kammeraad, March (1990).

1992

Editor and Publisher of the PHENIX Newsletter, a weekly newsletter of activities in the PHENIX collaboration. Circulation 250 worldwide.

Editor and Publisher of the PHENIX Notes, a collection of technical notes of interest to the PHENIX collaboration. Approximately 500 pages per month. Distributed to 50 institutions world wide.

1993

Editor and Publisher of the PHENIX Newsletter, a weekly newsletter of activities in the PHENIX collaboration. Circulation 350 worldwide.

Editor and Publisher of the PHENIX Notes, a collection of technical notes of interest to the PHENIX collaboration. Approximately 500 pages per month. Distributed to 50 institutions world wide.

1994

Editor and Publisher of the PHENIX Newsletter, a weekly newsletter of activities in the PHENIX collaboration. Circulation 375 worldwide.

Editor and Publisher of the PHENIX Notes, a collection of technical notes of interest to the PHENIX collaboration. Approximately 500 pages per month. Distributed to 52 institutions world wide.

1995

Editor and Publisher of the PHENIX Notes, a collection of technical notes of interest to the PHENIX collaboration. Approximately 500 pages per month. Distributed to 55 institutions world wide.

1999

“STAR TPC Installation at BNL”, *J. Thomas and H. Wieman*, 1998 NSD Annual Report, LBL 43072.

“The STAR Experiment at RHIC” – Educational posters for the RHIC Dedication Ceremony

2000

“The STAR Experiment” – Publicity posters for DOE Headquarters in Germantown

“The STAR Time Projection Chamber”, *J. Thomas and H. Wieman*, 1999 NSD Annual Report, LBL 45341.

“Pattern Recognition in Parity and CP Violation Studies at RHIC”, *J. Thomas and R. Longacre*, 1999 NSD Annual Report, LBL 45341.

“Detecting CP Violation in a Left-Right Symmetric World”, *R. Longacre and J. Thomas*, 1999 NSD Annual Report, LBL 45341.