Resume
of
Dr. Dipali Pal

Research Associate
Department of Physics & Astronomy
Vanderbilt University
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I am a high energy heavy ion Physicist working at the Physics & Astronomy Department, Vanderbilt University, Nashville, Tennessee as a Research Associate. I am a member of the PHENIX (Pioneering High Energy Nuclear Interaction eXperiment) collaboration The PHENIX Experiment is currently taking data at the Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory, Upton, New York. The primary goal of PHENIX is to discover and study a new state of matter called the Quark-Gluon Plasma and to learn where the proton gets its spin. My major activities here include software development, simulation, data analysis and detector maintenance for the PHENIX experiment at RHIC.

This is my resume. It has two parts.

Part A displays my personal details, education, present status and a list of references.

Part B describes my professional details including past and present research activities, list of publications (Annexure - 1), lectures/ seminars/ talks given (Annexure - 2) and my professional involvement with the scientific society (Annexure - 3).

Part A: General

1. Name: Dipali PAL
2. Date of birth: 30th September, 1969
3. Nationality: Indian
4. Sex: Female
5. Marital status: Married
6. Address for correspondence: Physics & Astronomy Department
   6301 Stevenson Center
   Vanderbilt University
   Nashville, TN 37235
   E-mail: dipali.pal@vanderbilt.edu
7. Academic records:

Degree	University	Year	Subject	Class
Ph.D.	Calcutta University	2000	Physics	
M.Sc.	Calcutta University	1993	Physics	First

8. a) Title of Ph.D. thesis: Electromagnetic signature of Quark-Gluon Plasma.
   b) Name of the supervisor: Dr. Dinesh Kumar Srivastava
   Head, Physics Group
   VEC Centre, Calcutta, India.

9. Present status: Research Associate
   Department of Physics & Astronomy
   Vanderbilt University
   Nashville, TN 37235
   USA
   Name of the host: Prof. Charles. F. Maguire.
   Director of Graduate Studies
   Vanderbilt University
   Nashville, TN 37235, USA

10. **List of references**:

a) Prof. Charles F. Maguire
Department of Physics & Astronomy
Vanderbilt University
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b) Prof. Dinesh Kumar Srivastava
Head, Physics Group
Variable Energy Cyclotron Center
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c) Prof. Senta V. Greene
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d) Dr. Melynda Brooks
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Los Alamos, NM 87545
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e) Prof. ShinIchi Esumi
Institute of Physics
University of Tsukuba
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Part B: Research experience

1. Positions held:

Position	Institute	From	To	Outline of the works done
Research Fellow	Variable Energy Cyclotron Centre, Calcutta, India	1994	2000	1. Bremsstrahlung production of soft photons and low-mass dileptons from Quark-Gluon Plasma under different scenarios and comparison with experimental results. 2. Collisional and radiative energy loss of heavy quarks in the quark matter at Relativistic Heavy Ion Collider (RHIC) and Large Hadron Collider (LHC) energies. 3. Large mass di-photon production from Quark-Gluon Plasma. 4. J/Ψ and Υ suppression at Relativistic Heavy Ion Collider (RHIC). 5. Collective transverse flow in relativistic heavy ion collisions.

Position	Institute	From	To	Outline of the works done
Visiting Fellow	Saha Institute of Nuclear Physics, India.	June 2000	August 2000	1. Strangeness equilibration in in excited quark matter.
Visiting Scientist	Weizmann Institute of Science, Rehovot, Israel (PHENIX Group)	December, 2000	June 1, 2003	1. $\Lambda/\bar{\Lambda}$ analysis in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV using PHENIX data. 2. ϕ meson measurements in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV 3. Setting up database and softwares for Monte-Carlo production and analysis in Weizmann Institute PC-farm. 4. Calculation of corrections and backgrounds for ϕ analysis (both kaon and electron channels). 5. Charged particle multiplicity measurement in Au-Au collsions in the PHENIX experiment at RHIC. 6. Parametrize the rates of soft photon and di-lepton procuction in relativistic heavy ion collisions.

Position	Institute	From	To	Outline of the works done
Research Associate	Vanderbilt University Nashville, TN (PHENIX Group)	June 1, 2003	Continuing	1. ϕ meson analysis in Au + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV 2. ϕ meson measurements in d+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV 3. PHENIX Pad chamber maintenance during 2003-5 RHIC experimental runs. 4. Particle identification using the Lead Scintillator detector for the PHENIX experiment at RHIC. 5. Measurements on Λ and $\bar{\Lambda}$ particles in Au + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV in PHENIX experiment at RHIC. 6. Simulation of single particles for PHENIX data analysis. 7. $\phi \rightarrow K^+K^-$ analysis for high luminosity Au + Au collisions at RHIC. 8. Analysis of $\phi \rightarrow K^+K^-$ elliptic flow (v_2) in run4 Au + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. 9. Chair of the PHENIX $\phi \rightarrow K^+K^-$ paper in Run3 d + Au collisions.

2. **Specializations:**

• Experienced in both theoretical and experimental physics researches.

• Associated with R&D activities at Brookhaven National Laboratory, New York, USA.

• Expert on numerical methods

• Experienced and specilized in software development for Postgresql and Objectivity database systems used for physics research and development works.

• Experienced with the event generators (HIJING, PYTHIA/ JETSET, VENUS, RQMD etc.) and the single particle Monte-Carlo event generator EXODUS (currently used in the PHENIX experiment at RHIC and can be used in all future heavy ion/ particle physics experiments).

• Expert in developing and handling Physics simulation packages for accelerator-based experiments.

• Expert on high and low voltage setup and online monitoring techniques for high energy physics experiments.

• Experienced in detector design and fabrication for experiments at Brookhaven National Laboratory.

• Expert in C++, Fortran, ROOT, Perl, Java and PostgreSQL programming.

• Experienced in developing and upgrading statistical data analysis software for physics research.

• Experienced in the Pad Chamber Detector maintenance (both hardware and software) for the PHENIX experiment at RHIC.

3. **Important Award/Offer:**

• Recipient of 2003 Membership award by the American Association for the Advancement of Science, NW, Washington, DC 20005 USA.

• Recipient of the offer to become judge for the poster session in Quark Matter 2004 conference, Oakland, CA, USA.

• Carried out course works on Raiation Safety Training at Brookhaven Natioal Laboratory, USA and passed the examinations. 4. **Reviewer status:**

• Reviewer of articles in Journal of Physics G, an international journal devoted to nuclear & particle physics, particle astrophysics and their intersections published by the Institute of Physics, a leading international professional body and learned society with over 37000 members.

5. **Membership in professional organization:**

American Physical Society, One Physics Ellipse, College Park, MD 20740.

6. **Special membership:**

Member, RHIC/ AGS Users' Group, Brookhaven National Laboratory, Upton, NY 11973.

7. **List of publication:** Please see Annexure 1.

8. **List of Lectures/ seminars/ talks given:** Please see Annexure 2.

9. **List of schools/ seminars/ symposia attended:** Please see Annexure 3.

Annexure 1

List of publications

A. Refereed journals:

1. Centrality dependence of direct photon production in $\sqrt{s_{NN}}$ = 200 GeV Au + Au collisions, *PHENIX Collaboration*, Phys. Rev. Lett. 94: 232301, 2005.

2. Measurement of single electron event anisotropy in Au + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV, *PHENIX Collaboration*, Phys. Rev. D71: 071102, 2005.

3. Mid-rapidity direct-photon production in p+p collisions at $\sqrt{s_{NN}}$ = 200 GeV, *PHENIX Collaboration*, Phys. Rev. D71: 071102, 2005.

4. ϕ meson production in d + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV, *Dipali Pal for the PHENIX Collaboration*, J.Phys. G31: S211-S216, 2005.

5. Nuclear modification factors for hadrons at forward and backward rapidities in deuteron gold collisions at $\sqrt{s_{NN}}$ = 200 GeV, *PHENIX Collaboration*, Phys. Rev. Lett. 94: 082302, 2005.

6. Saturation of azimuthal anisotropy in Au + Au collisions at $\sqrt{s_{NN}}$ = 62 GeV to 200 GeV, *PHENIX Collaboration*, Phys. Rev. Lett. 94: 232302, 2005.

7. Production of ϕ mesons at mid-rapidity in $\sqrt{s_{NN}}$ = 200 GeV Au + Au collisions at RHIC, *PHENIX Collaboration* Phys. Rev. C72: 014903, 2005.

8. Formation of dense partonic matter in relativistic nucleus-nucleus collisions at RHIC: Experimental evaluation by the PHENIX Collaboration, *PHENIX Collaboration*, Nucl. Phys. A757: 184-283, 2005.

9. Centrality dependence of charm production from a measurement of single electrons in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV, *PHENIX Collaboration*, Phys. Rev. Lett. 94: 082301,2005.

10. Systematic studies of the centrality and $\sqrt{s_{NN}}$ dependence of the $dE_T/d\eta$ and $dN_{romanch}/d\eta$ in heavy ion collisions at midrapidity, *PHENIX Collaboration*, Phys. Rev. C71: 034908, 2005, Erratum-ibid. C71: 049901, 2005.

11. Jet structure of baryon excess in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV, *PHENIX Collabor* Phys. Rev. C71:051902, 2005.

12. Deuteron and antideuteron production in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV, *PHENIX Collaboration*, Phys. Rev. Lett. 94: 122302, 2005.

13. Double helicity asymmetry in inclusive Mid-Rapidity neutral pion production at $\sqrt{s_{NN}} = 200$ GeV, *PHENIX Collaboration*, Phys. Rev. Lett **93**: 202002 (2004).

14. Bose-Einstein correlations of charged pion pairs in Au + Au collisions at $\sqrt{s_{NN}} =$ 200 GeV, *PHENIX Collaboration*, Phys. Rev. Lett. **93**: 152302, 2004.

15. Measurement of nonrandom event by event fluctuation of average transverse momentum in $\sqrt{s_N} = 200$ GeV Au+Au and p+p collisions, *PHENIX Collaboration*, Phys. Rev. Lett. **93**: 092301, 2004.

16. High p_T charged hadron suppression in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV, *PHENIX Collaboration*, Phys. Rev. **C69**:034910, 2004.

17. Identified charged particle spectra and yields in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV, *PHENIX Collaboration*, Phys. Rev. **C69**:034909, 2004.

18. J/Ψ production from proton proton collisions at $\sqrt{s_{NN}} = 200$ GeV, *PHENIX Collaboration* Phys. Rev. Lett. **92**: 051802, 2004.

19. Absence of suppression in particle production at large transverse momentum in $\sqrt{s_{NN}} = 200$ GeV d + Au collisions, *PHENIX Collaboration*, Phys. Rev. Lett. **91**:072303, 2003.

20. Scaling properties of proton and anti-proton production in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions, *PHENIX Collaboration*, Phys. Rev. Lett. **91**: 172301, 2003.

21. J/Ψ production in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV at the relativistic heavy ion collider, *PHENIX Collaboration*, Phys. Rev. **C69**: 014901, 2004.

22. Parametrization of soft photon production in relativistic heavy ion collisions, *Dipali Pal and Debsankar Mukhopadhyay*, Phys. Rev. **C67**:057001, 2003.

23. Elliptic flow of identified hadrons in Au + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV, *PHENIX Collaboration*, Phys. Rev. Lett. **91**: 182301, 2003.

24. Suppressed π^0 production at large transverse momentum in central Au + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV, *PHENIX Collaboration*, Phys. Rev. Lett. **91**:072301, 2003.

25. Mid-rapidity neutral pion production in proton proton collisions at $\sqrt{s_{NN}}$ = 200 GeV, *PHENIX Collaboration*, Phys. Rev. Lett. **89**:092302, 2002.

26. Measurement of the Lambda and anti-Lambda particles in Au + Au collisions at $\sqrt{S_{NN}}$ = 130 GeV, *PHENIX Collaboration*, Phys. Rev. Lett. **89**: 092302, 2002.

27. The extent of strangeness in equilibration in Quark Gluon Plasma, *Dipali Pal, Abhijit Sen, Munshi Golam Mustafa, Dinesh Kumar Srivastava*, Pramana **60**: 1083-1088, 2002.

28. Evolution of strangeness in equilibrating and expanding Quark-Gluon Plasma, *Dipali Pal , Abhijit Sen, Munshi Golam Mustafa, Dinesh Kumar Srivastava*, Phys. Rev. **C65**: 034901 (2002).

29. Determination of equation of state of quark matter from J/Ψ and Υ suppression at RHIC and LHC, *Dipali Pal, Binoy Krishna Patra, Dinesh Kumar Srivastava* , Eur. Phys. J. C**17**:179-186, 2000.

30. Excess production of Low mass lepton pairs in Au + Au collisions at the CERN super proton synchrotron and the quark-hadron phase transition, *D. K. Srivastava, B. Sinha, Dipali Pal, C. Gale, K. Haglin*, Nucl. Phys. **A610**: 350c (1996).

31. Soft electromagnetic radiations from equilibrating Quark-Gluon Plasma, *Dipali Pal, Munshi Golam Mustafa* , Phys. Rev. **C60**:034905, 1999.

32. Radiative energy loss of heavy quarks in Quark Gluon Plasma, *Munshi Golam Mustafa, Dipali Pal, Dinesh Kumar Srivastava , Markus Thoma,* Phys. Lett. B**438**:450, 1998. ‘

33. Propagation of charm quarks in equilibrating Quark - Gluon Plasma, *Munshi Golam Mustafa, Dipali Pal, Dinesh Kumar Srivastava*, Phys. Rev. **C57**: 889-898, 1998; Erratum Phys. Rev. **C57**, 3499 (1998).

34. Large mass diphotons from relativistic heavy ion collisions, *Sourav Sarkar, Dinesh Kumar Srivastava, Bikash Sinha, Pradip Kumar Roy, Subhasis Chattopadhyay, Dipali Pal*, Phys. Lett. **B402**: 13-17, 1997.

35. Soft electromagnetic radiations from relativistic heavy ion collisions, *Dipali Pal, Pradip Kumar Roy, Sourav Sarkar, Dinesh Kumar Srivastava,Bikash Sinha,* Phys. Rev. **C55**: 1467-1476, 1997.

36. Soft photons from relativistic heavy ion collisions, *P. K. Roy, Dipali Pal, S. Sarkar, D. K. Srivastava, B. Sinha*, Phys. Rev. **C53**: 2364 (1996).

37. A scheme to identify collective transverse flow in relativistic heavy ion collisions at CERN SPS, *D.K. Srivastava, S. Sarkar, P.K. Roy, Dipali Pal, B. Sinha,* Phys. Lett. **B379**: 54-59, 1996.

38. Bremsstrahlung production of low mass dielectrons in relativistic heavy ion collisions, *Dipali Pal, D.K. Srivastava, K. Haglin,* Phys. Rev. **C54**: 1366-1374, 1996.

B. Conference Proceedings:

1. ϕ meson production in d-Au collisions at $\sqrt{s_{NN}}$ = 200 GeV, Dipali Pal for the PHENIX Collaboration, Proc. (to appear) Hot Quarks 2004, Taos Valley, New Mexico, USA, July 19 - 26, 2004.

2. Evolution of strangeness in equilibrating and expanding quark-gluon plasma, *Dipali Pal, Abhijit Sen, Munshi Golam Mustafa and Dinesh K. Srivastava* , Proc. 4^{th} International conference on Physics and Astrophysics of Quark-Gluon Plasma, Jaipur, India, 2001.

3. Energy loss of heavy quarks in equilibrating Quark-Gluon Plasma, *Munshi Golam Mustafa, Dipali Pal, Dinesh Kumar Srivastava , Markus Thoma,* Proc. DAE symposium on Nuclear Physics, Bangalore, India, December, 1997.

4. Soft electromagnetic radiations from relativistic heavy ion collisions, *Dipali Pal, P. K. Roy, S. Sarkar, D. K. Srivastava and B. C. Sinha,*, Proc. 3^{rd} International Conference

on Physics and Astrophysics of Quark Gluon Plasma (ICPAQGP 97), Jaipur, India, 17-21 March, 1997.

C. Conference Presentations:

1. Nuclear modifications and elliptic flow measurements for ϕ mesons at $\sqrt{sNN} = 200$ GeV d+Au and Au+Au collisions by PHENIX, Quark Matter 2005, Budapest, Hungary, August 4 - 9, 2005.

2. ϕ meson measurement via K^+K^- decay channel in d + Au collisions at $\sqrt{s_{NN}} = 200$ GeV, 2005 APS Meeting, Tampa, April 16 - 19, 2005.

3. ϕ meson production in Au-Au and d-Au collisions at $\sqrt{s_{NN}} = 200$ GeV, Dipali Pal for the PHENIX collaboration, Fall DNP meeting, American Physical Society, Chicago, IL, USA, October 27 - 31, 2004.

4. ϕ meson production in d-Au collisions at $\sqrt{s_{NN}} = 200$ GeV, Dipali Pal for the PHENIX Collaboration, Hot Quarks 2004, Taos Ski Valley, New Mexico, USA, July 19 - 26, 2004.

5. Study of ϕ mesons via K^+K^- channel in Au-Au and d-Au collisions at $\sqrt{s_{NN}} = 200$ GeV, *Dipali Pal (for the PHENIX Collaboration)*, The Seventeenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark Matter 2004), Oakland, January 11 - 17, 2004.

6. ϕ meson production in d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV, *Dipali Pal (for the PHENIX Collaboration)*, Talk presented at 2003 Fall Meeting of the Division of Nuclear Physics, American Physical Society, Department of Physics, University of Arizona Tucson, AZ, October 30 - November 01, 2003.

7. Evolution of strangeness in equilibrating and expanding quark-gluon plasma, 4^{th} International conference on Physics and Astrophysics of Quark-Gluon Plasma, Jaipur, India, 2001.

8. Propagation of charm quarks in equilibrating Quark - Gluon Plasma, DAE Symposium on Nuclear Physics, Bangalore, India, December, 1997.

9. Radiative energy loss of heavy quarks in equilibrating Quark-Gluon Plasma, DAE Symposium on Nuclear Physics, Bangalore University, Bangalore, India, December, 1997.

10. Soft electromagnetic radiations from relativistic heavy ion collisions, 3^{rd} Interna-

tional Conference on Physics and Astrophysics of Quark Gluon Plasma (ICPAQGP 97), Jaipur, India, 17-21 March, 1997.

11. Soft electromagnetic radiations from relativistic heavy ion collisions, DAE Symposium on Nuclear Physics, Pantnagar, India, December, 1996.

12. Excess production of low mass lepton pairs in S + Au collisions at the CERN Super Proton Synchrotron and the Quark-Hadron phase transition, XII International Conference on Ultrarelativistic Nucleus-Nucleus Collisions, Quark Matter 1996, Heidelberg, Germany, May 20-24, 1996.

13. Soft photons from relativistic heavy ion collisions, International Nuclear Physics Symposium, Mumbai, India, December, 1995.

14. Bremsstrahlung production of low mass dielectrons in relativistic heavy ion collisions, International Nuclear Physics Symposium (INPS-95), Mumbai, India, December, 1995.

Annexure 2

List of talks/ seminars/ lectures given:

1. Nuclear modifications and elliptic flow measurements for ϕ mesons at $\sqrt{sNN} = 200$ GeV d+Au and Au+Au collisions by PHENIX, Quark Matter 2005, Budapest, Hungary, August 4 - 9, 2005.

2. ϕ meson measurement via K^+K^- decay channel in d + Au collisions at $\sqrt{s_{NN}} =$ 200 GeV, 2005 APS Meeting, Tampa, April 16 - 19, 2005.

3. Phi meson production in Au-Au and d-Au collisions at RHIC, Invited seminar presented at the Department of Physics & Astronomy, Vanderbilt University, Nashville, TN, November 8, 2004.

4. ϕ meson production in Au-Au and d-Au collisions at $\sqrt{s_{NN}} = 200$ GeV, 2004 Fall DNP Meeting, Chicago, IL, USA, October 27-31, 2004.

5. ϕ meson production in d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV, Hot Quarks 2004, Workshop for young scientists on the physics of ultrarelativistic nucleus-nucleus collisions, July 18 0 24, 2004, Taos Valley, New Mexico, USA.

6. ϕ meson production in d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV, 2003 Fall Meeting of the Division of Nuclear Physics, American Physical Society, Department of Physics, University of Arizona Tucson, AZ, October 30 - November 01, 2003.

7. Evolution of strangeness in equilibrating and expanding quark-gluon plasma, 4^{th} International conference on Physics and Astrophysics of Quark-Gluon Plasma, Jaipur, India, 2001.

8. Equation of state of quark matter from J/Ψ and Upsilon suppression at RHIC and LHC, Micro-workshop on Quark-Gluon Plasma, Tata Institute of Fundamental Research, Mumbai, India, April, 2000.

9. Energy loss of heavy quarks in equilibrating Quark-Gluon Plasma, International Summer School on Particle Production spanning MeV to TeV, Nijmegen, The Netherlands, August, 1999.

10. Electromagnetic signature of Quark-Gluon Plasma, University of Calcutta, Calcutta, India, February, 1999.

11. Production of low mass dileptons and soft photons in relativistic heavy ion collisions, Institute of Physics, Hanoi, Vietnam, January, 1999.

12. Energy loss of heavy quarks in equilibrating Quark-Gluon Plasma, Institute of Physics, Bhubaneswar, India, May, 1998.

13. Radiative energy loss of heavy quarks in equilibrating Quark-Gluon Plasma, DAE Symposium of Nuclear Physics, Bangalore University, Bangalore, India, December, 1997.

14. Electromagnetic signature of Quark-Gluon Plasma, Saha Institute of Nuclear Physics, Calcutta, India, August, 1997.

15. Bremsstrahlung production of low-mass dileptons in Ultra-relativistic heavy ion collisions, Variable Energy Cyclotron Centre, Calcutta, India, 21 November, 1996.

Annexure 3

List of schools/ seminars/ symposia attended

1. XVIII International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, Quark Matter 2005, Budapest, Hungary, August 4 - 9, 2005.

2. 2005 APS Meeting, Tampa, April 16 - 19, 2005.

3. Nuclear Physics Seminar, Department of Physics & Astronomy, Vanderbilt University, Nashville, TN November 8, 2004.

4. 2004 Fall DNP Meeting, American Physical Society, October 27 - 31, 2004, Chicago, IL, USA.

5. Hot Quarks 2004, Workshop for young scientists on the physics of ultrarelativistic nucleus-nucleus collisions, July 18 0 24, 2004, Taos Valley, New Mexico, USA.

6. XVII International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, Quark Matter 2004, Oakland, California, January 11 - 17, 2004.

7. 2003 Fall Meeting of the Division of Nuclear Physics, American Physical Society, Department of Physics, University of Arizona Tucson, AZ, October 30 - November 01, 2003.

8. XVI International Conference on Ultrarelativistic Nucleus-Nucleus Collisions, Quark Matter 2002, Nantes, France, July 18 - 24, 2002.

9. 4^{th} International Conference on Physics and Astrophysics of Quark Gluon Plasma, Jaipur, India, 2001.

10. Micro-workshop on Quark-Gluon Plasma, Tata Institute of Fundamental Research, Mumbai, India, April, 2000.

11. International Summer School on Particle Production spanning MeV to TeV, Nijmegen, The Netherlands, 9 - 20 August, 1999.

12. 5^{th} Vietnam International School On Physics, Hanoi, Vietnam, 27 Dec 1998 - 9 Jan 1999.

13. Workshop on Quark-Gluon Plasma, Bhubaneswar, India, May 1998.

14. DAE Symposium on Nuclear Physics, Bangalore, India, December 1997.

15. 3^{rd} International Conference on Physics and Astrophysics of Quark Gluon Plasma, Jaipur, India, 17-21 March, 1997.

16. DAE Symposium on Nuclear Physics, Pantnagar, India, December 1996.

17. International Nuclear Physics Symposium, Mumbai, India, December 1995.

18. Workshop on Quark-Gluon Plasma and Phase Transition in early Universe, Bhubaneswar, India, December 1995.

19. SERC School on Theoretical High Energy Physics, Banaras Hindu University, India, 15 Feb. - 15 Mar. 1995.