



**Dr. Gopika Sood**

**Qualification** : Ph.D, Post-Doctorate

**Teaching Experience**– 13 yrs.

**Assistant Professor in Physics** (2009 – At present, Post Graduate Govt. College for Girls, Sec-11, Chandigarh.)

**Research Experience** : 3yrs.

Postdoc Resesarch Associate, CMS@LHC, (Feb., 2007 to Mar 2008)

Post-Doctoral Research Associate @ STAR @ RHIC. (Feb. 2004 to June 2006).

**Area of Specialization:** High Energy Physics

**List of Publications : 82**

- 1 Photon and Eta Production in p+Pb and p+C Collisions at  $\sqrt{s_{NN}}=17.4$  GeV  
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Aug 2011.  
Published in Nucl.Phys. A898 (2013) 14-23
2. Event-by-event charged-neutral fluctuations in Pb+Pb collisions at 158 A-GeV  
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Mar 2011. 6 pp.  
Published in Phys.Lett. B701 (2011) 300-305
3. Source radii at target rapidity from two-proton and two-deuteron correlations in central Pb + Pb collisions at 158-A-GeV  
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Sep 2007. 11 pp.  
e-Print: arXiv:0709.2477
4. Suppression of High-p(T) Neutral Pions in Central Pb+Pb Collisions at  $s(NN)^{1/2} = 17.3$ -GeV  
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Aug 2007. 5 pp.  
Published in Phys.Rev.Lett. 100 (2008) 242301
5. Production of antineutrino events in ultra-relativistic heavy ion collisions

G. Sood (Government Coll., Chandigarh). Apr 2007. 6 pp.  
To appear in the proceedings of Conference: C06-11-14Proceedings  
e-Print: arXiv:0704.1193

6. ALICE: Physics performance report, volume II  
ALICE Collaboration (B Alessandro (ed.) (Turin U.&INFN, Turin) *et al.*). 2006. 746 pp.  
Published in J.Phys. G32 (2006) 1295-2040
7. Rapidity and species dependence of particle production at large transverse momentum for d+Au collisions at  $s(NN)^{1/2} = 200$ -GeV  
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Sep 2006. 14 pp.  
Published in Phys.Rev. C76 (2007) 054903
8. Longitudinal double-spin asymmetry and cross section for inclusive jet production in polarized proton collisions at  $s^{1/2} = 200$ -GeV  
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Aug 2006. 6 pp.  
Published in Phys.Rev.Lett. 97 (2006) 252001
9. Neutral kaon interferometry in Au+Au collisions at  $s(NN)^{1/2} = 200$ -GeV  
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Aug 2006. 11 pp.  
Published in Phys.Rev. C74 (2006) 054902
10. Strange particle production in p+p collisions at  $s^{1/2} = 200$ -GeV  
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Jul 2006. 22 pp.  
Published in Phys.Rev. C75 (2007) 064901
11. Pion Freeze-Out Time in Pb+Pb Collisions at 158-A-GeV/c Studied via  $\pi^-/\pi^+$  and  $K^-/K^+$  Ratios  
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Jul 2006. 9 pp.  
Published in Eur.Phys.J. C48 (2006) 343-352
12. Delta phi Delta eta Correlations in Central Au+Au Collisions at  $s(NN)^{1/2} = 200$ -Gev  
Star Collaboration (J. Adams (Birmingham U.) *et al.*). Jul 2006. 17 pp.  
Published in Phys.Rev. C75 (2007) 034901
13. The Multiplicity dependence of inclusive p t spectra from pp collisions at  $s^{1/2} = 200$ -GeV  
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Jun 2006. 17 pp.  
Published in Phys.Rev. D74 (2006) 032006
14. Scaling Properties of Hyperon Production in Au+Au Collisions at  $s^{1/2} = 200$ -GeV  
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Jun 2006. 6 pp.

Published in Phys.Rev.Lett. 98 (2007) 062301

15. Identified baryon and meson distributions at large transverse momenta from Au+Au collisions at  $\sqrt{s(NN)}^{1/2} = 200$ -GeV  
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Jun 2006. 6 pp.  
Published in Phys.Rev.Lett. 97 (2006) 152301
16. The Energy dependence of  $p_t$  angular correlations inferred from mean- $p(t)$  fluctuation scale dependence in heavy ion collisions at the SPS and RHIC  
STAR Collaboration (J. Adams *et al.*). May 2006. 10 pp.  
Published in J.Phys. G34 (2007) 451-466
17. Strange baryon resonance production in  $\sqrt{s(NN)}^{1/2} = 200$ -GeV p+p and Au+Au collisions  
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Apr 2006. 6 pp.  
Published in Phys.Rev.Lett. 97 (2006) 132301
18. Direct observation of dijets in central Au+Au collisions at  $\sqrt{s(NN)}^{1/2} = 200$ -GeV  
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Apr 2006. 6 pp.  
Published in Phys.Rev.Lett. 97 (2006) 162301
19. Event-by-event study of DCC-like fluctuation in ultra-relativistic nuclear collisions  
M.M. Aggarwal, G. Sood (Panjab U.), Y.P. Viyogi (Calcutta, VECC). Feb 2006. 10 pp.  
Published in Phys.Lett. B638 (2006) 39-43
20. Forward neutral pion production in p+p and d+Au collisions at  $\sqrt{s(NN)}^{1/2} = 200$ -GeV  
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Feb 2006. 6 pp.  
Published in Phys.Rev.Lett. 97 (2006) 152302
21. Measurements of identified particles at intermediate transverse momentum in the STAR experiment from Au + Au collisions at  $\sqrt{s(NN)}^{1/2} = 200$ - GeV  
STAR and STAR-RICH Collaborations (John Adams *et al.*). Jan 2006. 15 pp.  
e-Print: [nucl-ex/0601042](https://arxiv.org/abs/nucl-ex/0601042) | PDF
22. Identified hadron spectra at large transverse momentum in p+p and d+Au collisions at  $\sqrt{s(NN)}^{1/2} = 200$ -GeV  
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Jan 2006. 19 pp.  
Published in Phys.Lett. B637 (2006) 161-169
23. Recent high- $p(T)$  results from STAR  
STAR Collaboration (C.A. Gagliardi *et al.*). 2005. 8 pp.

Published in Eur.Phys.J. C43 (2005) 263-270

24. Charm production in the STAR experiment at RHIC  
STAR Collaboration (A.A.P. Suaide *et al.*). 2005. 8 pp.  
Published in Eur.Phys.J. C43 (2005) 193-200
25. Open charm production from d + Au collisions in STAR  
STAR Collaboration (M. Calderon de la Barca Sanchez *et al.*). 2005. 6 pp.  
Published in Eur.Phys.J. C43 (2005) 187-192
26. Multiplicity and pseudorapidity distributions of charged particles and photons at forward pseudorapidity in Au + Au collisions at  $s(\text{NN})^{1/2} = 62.4\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Nov 2005. 17 pp.  
Published in Phys.Rev. C73 (2006) 034906
27. Proton - lambda correlations in central Au+Au collisions at  $S(\text{NN})^{1/2} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Nov 2005. 8 pp.  
Published in Phys.Rev. C74 (2006) 064906
28. Directed flow in Au+Au collisions at  $s(\text{NN})^{1/2} = 62\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Oct 2005. 8 pp.  
Published in Phys.Rev. C73 (2006) 034903
29. Transverse-momentum  $p(t)$  correlations on  $(\eta, \phi)$  from mean- $p(t)$  fluctuations in Au-Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$   
STAR Collaboration (John Adams *et al.*). Sep 2005. 7 pp.  
Published in J.Phys. G32 (2006) L37-L48
30. Incident energy dependence of  $p_t$  correlations at RHIC  
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Apr 2005. 6 pp.  
Published in Phys.Rev. C72 (2005) 044902
31. Multi-strange baryon elliptic flow in Au + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Apr 2005. 6 pp.  
Published in Phys.Rev.Lett. 95 (2005) 122301
32. Multiplicity and pseudorapidity distributions of photons in Au + Au collisions at  $s(\text{NN})^{1/2} = 62.4\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Feb 2005. 6 pp.  
Published in Phys.Rev.Lett. 95 (2005) 062301

33. Distributions of charged hadrons associated with high transverse momentum particles in pp and Au + Au collisions at  $\sqrt{s(NN)} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jan 2005. 6 pp.  
Published in Phys.Rev.Lett. 95 (2005) 152301
34. Experimental and theoretical challenges in the search for the quark gluon plasma: The STAR Collaboration's critical assessment of the evidence from RHIC collisions  
STAR Collaboration (John Adams (Birmingham U.) et al.). Jan 2005. 99 pp.  
Published in Nucl.Phys. A757 (2005) 102-183
35. ALICE: Physics performance report, volume I  
ALICE Collaboration (F Carminati (ed.) et al.). 2004. 247 pp.  
Published in J.Phys. G30 (2004) 1517-1763
36.  $K(892)^*$  resonance production in Au+Au and p+p collisions at  $\sqrt{s(NN)} = 200\text{-GeV}$  at STAR  
STAR Collaboration (J. Adams (Birmingham U.) et al.). Dec 2004. 16 pp.  
Published in Phys.Rev. C71 (2005) 064902
37. Pion interferometry in Au+Au collisions at  $\sqrt{s(NN)} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Nov 2004. 25 pp.  
Published in Phys.Rev. C71 (2005) 044906
38. Minijet deformation and charge-independent angular correlations on momentum subspace ( $\eta$ ,  $\phi$ ) in Au-Au collisions at  $\sqrt{s(NN)} = 130\text{-GeV}$   
STAR Collaboration (John Adams (Birmingham U.) et al.). Nov 2004. 6 pp.  
Published in Phys.Rev. C73 (2006) 064907
39. Centrality and transverse momentum dependence of collective flow in 158-A-GeV Pb+Pb collisions measured via inclusive photons  
WA98 Collaboration (M.M. Aggarwal et al.). Oct 2004. 28 pp.  
Published in Nucl.Phys. A762 (2005) 129-146
40. Azimuthal anisotropy in Au+Au collisions at  $\sqrt{s(NN)} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Sep 2004. 24 pp.  
Published in Phys.Rev. C72 (2005) 014904
41. ALICE technical design report on forward detectors: FMD, T0 and V0  
ALICE Collaboration (P Cortese (CERN) et al.). Sep 2004. 171 pp.  
CERN-LHCC-2004-025

42. Pseudorapidity asymmetry and centrality dependence of charged hadron spectra in d + Au collisions at  $\sqrt{s(NN)}^{1/2} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Aug 2004. 7 pp.  
Published in Phys.Rev. C70 (2004) 064907
43. Transverse momentum correlations and minijet dissipation in Au-Au collisions at  $\sqrt{s(NN)}^{1/2}\text{-GeV}$   
STAR Collaboration (John Adams et al.). Aug 2004. 6 pp.  
Published in J.Phys. G34 (2007) 799-816
44. Azimuthal anisotropy and correlations at large transverse momenta in p+p and Au+Au collisions at  $\sqrt{s(NN)}^{1/2} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2004. 6 pp.  
Published in Phys.Rev.Lett. 93 (2004) 252301
45. Open charm yields in d + Au collisions at  $\sqrt{s(NN)}^{1/2} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2004. 7 pp.  
Published in Phys.Rev.Lett. 94 (2005) 062301
46. Measurements of transverse energy distributions in Au + Au collisions at  $\sqrt{s(NN)}^{1/2} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2004. 15 pp.  
Published in Phys.Rev. C70 (2004) 054907
47. Transverse-momentum dependent modification of dynamic texture in central Au+Au collisions at  $\sqrt{s(NN)}^{1/2} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2004. 6 pp.  
Published in Phys.Rev. C71 (2005) 031901
48. Hadronization geometry and charge-dependent number autocorrelations on axial momentum space in Au-Au collisions at  $\sqrt{s(NN)}^{1/2} = 130\text{-GeV}$   
STAR Collaboration (John Adams et al.). Jun 2004. 6 pp.  
Published in Phys.Lett. B634 (2006) 347-355
49. Azimuthal anisotropy of photon and charged particle emission in Pb-208 + Pb-208 collisions at  $158\text{-A-GeV}/c$   
WA98 Collaboration (M.M. Aggarwal et al.). Jun 2004. 18 pp.  
Published in Eur.Phys.J. C41 (2005) 287-296
50. phi meson production in Au + Au and p+p collisions at  $\sqrt{s(NN)}^{1/2} = 200\text{-GeV}$   
STAR Collaboration (John Adams et al.). Jun 2004. 6 pp.  
Published in Phys.Lett. B612 (2005) 181-189

51. Centrality and pseudorapidity dependence of charged hadron production at intermediate  $p_T$  in Au + Au collisions at  $\sqrt{s_{NN}} = 130\text{-GeV}$   
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Apr 2004. 11 pp.  
 Published in Phys.Rev. C70 (2004) 044901
  
52. Production of  $e^+ e^-$  pairs accompanied by nuclear dissociation in ultra-peripheral heavy ion collision  
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Apr 2004. 6 pp.  
 Published in Phys.Rev. C70 (2004) 031902
  
53. Photon and neutral pion production in Au + Au collisions at  $\sqrt{s_{NN}} = 130\text{-GeV}$   
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Jan 2004. 13 pp.  
 Published in Phys.Rev. C70 (2004) 044902
  
54. Azimuthally sensitive HBT in Au + Au collisions at  $\sqrt{s_{NN}} = 200\text{-GeV}$   
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Dec 2003. 6 pp.  
 Published in Phys.Rev.Lett. 93 (2004) 012301
  
55. Cross-sections and transverse single spin asymmetries in forward neutral pion production from proton collisions at  $\sqrt{s} = 200\text{-GeV}$   
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Oct 2003. 6 pp.  
 Published in Phys.Rev.Lett. 92 (2004) 171801
  
56. Azimuthal anisotropy at RHIC: The First and fourth harmonics  
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Oct 2003. 6 pp.  
 Published in Phys.Rev.Lett. 92 (2004) 062301
  
57. Interferometry of direct photons in central Pb-208+Pb-208 collisions at  $158\text{-A-GeV}$   
 WA98 Collaboration (M.M. Aggarwal (Panjab U.) et al.). Oct 2003. 5 pp.  
 Published in Phys.Rev.Lett. 93 (2004) 022301
  
58. Identified particle distributions in pp and Au+Au collisions at  $\sqrt{s_{NN}} = 200\text{ GeV}$   
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Oct 2003. 7 pp.  
 Published in Phys.Rev.Lett. 92 (2004) 112301
  
59. Pion, kaon, proton and anti-proton transverse momentum distributions from p+p and d+ Au collisions at  $\sqrt{s_{NN}} = 200\text{ GeV}$   
 STAR Collaboration (John Adams et al.). Sep 2003. 6 pp.  
 Published in Phys.Lett. B616 (2005) 8-16

60. Event wise  $\langle p(t) \rangle$  fluctuations in Au - Au collisions at  $s(NN)^{1/2} = 130\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Aug 2003. 6 pp.  
Published in Phys.Rev. C71 (2005) 064906
61. Pion kaon correlations in Au+Au collisions at  $s(NN)^{1/2} = 130\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2003. 6 pp.  
Published in Phys.Rev.Lett. 91 (2003) 262302
62. Multistrange baryon production in Au-Au collisions at  $S(NN)^{1/2} = 130\text{ GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2003. 6 pp.  
Published in Phys.Rev.Lett. 92 (2004) 182301
63.  $\rho_0$  production and possible modification in Au+Au and p+p collisions at  $S(NN)^{1/2} = 200\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2003. 6 pp.  
Published in Phys.Rev.Lett. 92 (2004) 092301
64. Net charge fluctuations in Au+Au collisions at  $s(NN)^{1/2} = 130\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2003. 9 pp.  
Published in Phys.Rev. C68 (2003) 044905
65. Rapidity and centrality dependence of proton and anti-proton production from Au-197 + Au-197 collisions at  $(S(NN))^{1/2} = 130\text{-GeV}$   
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jun 2003. 4 pp.  
Published in Phys.Rev. C70 (2004) 041901
66. Evidence from d + Au measurements for final state suppression of high  $p(T)$  hadrons in Au+Au collisions at RHIC  
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jun 2003. 6 pp.  
Published in Phys.Rev.Lett. 91 (2003) 072304
67. Particle type dependence of azimuthal anisotropy and nuclear modification of particle production in Au + Au collisions at  $s(NN)^{1/2} = 200\text{-GeV}$   
STAR Collaboration (John Adams (UC, Davis) et al.). Jun 2003. 6 pp.  
Published in Phys.Rev.Lett. 92 (2004) 052302
68. Transverse momentum and collision energy dependence of high  $p(T)$  hadron suppression in Au+Au collisions at ultrarelativistic energies  
STAR Collaboration (J. Adams (Birmingham U.) et al.). May 2003. 6 pp.  
Published in Phys.Rev.Lett. 91 (2003) 172302



69. The STAR photon multiplicity detector  
M.M. Aggarwal et al.. Dec 2002. 15 pp.  
Published in Nucl.Instrum.Meth. A499 (2003) 751-761
  
70. ALICE: Addendum to the technical design report of the time of flight system (TOF)  
ALICE Collaboration (P. Cortese (Turin U., Alessandria) et al.). Apr 2002. 154 pp.  
CERN-LHCC-2002-016
  
71. One, two and three particle distributions from 158-A-GeV/c central Pb + Pb collisions  
WA98 Collaboration (M.M. Aggarwal et al.). Oct 2002. 24 pp.  
Published in Phys.Rev. C67 (2003) 014906
  
72. Particle density fluctuations  
Bedangadas Mohanty (Calcutta, VECC), M.M. Aggarwal, Z. Ahammed, A.L.S. Angelis,  
V. Antonenko, V. Arefev, V. Astakhov, V. Avdeitchikov, T.C. Awes, P.V.K.S. Baba et  
al.. Aug 2002. 10 pp.  
Published in Nucl.Phys. A715 (2003) 339-348
  
73. Centrality dependence of charged neutral particle fluctuations in 158-A-GeV Pb-208 +  
Pb-208 collisions  
WA98 Collaboration (M.M. Aggarwal et al.). Jun 2002. 20 pp.  
Published in Phys.Rev. C67 (2003) 044901
  
74. Direct photons in WA98  
M.M. Aggarwal, A. Agnihotri, Z. Ahammed, A.L.S. Angelis, V. Antonenko, V. Arefev,  
V. Astakhov, V. Avdeichikov, T.C. Awes, P.V.K.S. Baba et al.. 2002.  
Published in Nucl.Phys. A698 (2002) 135-142
  
75. Event-by-event fluctuations in particle multiplicities and transverse energy produced in  
158-A-GeV Pb + Pb collisions  
WA98 Collaboration (M.M. Aggarwal et al.). Aug 2001. 17 pp.  
Published in Phys.Rev. C65 (2002) 054912
  
76. Multiplicity distributions and charged neutral fluctuations  
WA98 Collaboration (Tapan K. Nayak (Calcutta, VECC) et al.). Aug 2001. 5 pp.  
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Prepared for Conference: C01-07-30.3, p.507-511

77. Transverse mass distributions of neutral pions from Pb-208 induced reactions at 158-A-GeV  
WA98 Collaboration (M.M. Aggarwal et al.). Aug 2001. 11 pp.  
Published in Eur.Phys.J. C23 (2002) 225-236
  
78. Multiplicity distributions and charged neutral fluctuations  
WA98 Collaboration (Tapan K. Nayak (Calcutta, VECC) et al.). Dec 2000. 15 pp.  
Published in Pramana 57 (2001) 285-300
  
79. Localized charged neutral fluctuations in 158 A GeV Pb + Pb collisions  
WA98 Collaboration (M.M. Aggarwal et al.). Dec 2000. 5 pp.  
Published in Phys.Rev. C64 (2001) 011901
  
80. Observation of direct photons in central 158-A-GeV Pb-208 + Pb-208 collisions  
WA98 Collaboration (M.M. Aggarwal (Panjab U.) et al.). Jun 2000. 5 pp.  
Published in Phys.Rev.Lett. 85 (2000) 3595-3599
  
81. Direct photon production in 158-A-GeV Pb-208 + Pb-208 collisions  
WA98 Collaboration (M.M. Aggarwal et al.). Jun 2000. 56 pp.  
e-Print: nucl-ex/0006007
  
82. Simulation of High energy nuclear events using HIJING model  
G.Sood and Havinder Kaur, CECT, (2012)

## **Presentations**

1. National Conference on Challenges in Emerging Computer Technologies (CECT' 2012) May 16-17, Rayat Bahara College of Engineering and Bio-Technology, Mohali. INDIA.
2. One day seminar programme in "Recent trends in Physics" Panjab University, Chandigarh, August 31, 2010.
3. b-jet Tagging in CMS heavy ion program. Korea Physics Society Meeting (KPS) Jeju Island, Seoul, October 15-20, 2007. b-jet Tagging : Techniques and Analysis Plan, CMS Annual Heavy Ion Meeting, CERN, July 15, 2007.
4. b-jet tagging for heavy ions (Pb-Pb) data. KIAS, Seoul, October 13, 2007.
5. Heavy Flavor (b-jet tagging) Analysis in CMS, CMS-Korea Group meeting, Korea niversity, Seoul, July 16, 2007.
6. Introduction to b-jet tagging, Korea University Group meeting, April 26, 2007.
7. Heavy ion physics with LHC. Talk at International Workshop on "High Energy Physics in the LHC Era". December, 11-15, 2006. Valparaiso, Chile.
8. Production of Anti-centauro events in ultra-relativistic heavy ion collisions. (Poster),

- The 19<sup>th</sup> International Conference on ultra-relativistic Nucleus-Nucleus collisions, Quark Matter 2006, Shanghai, China, Nov. 14-20.
9. Talk at Royal Holloway Institute, London, CCLRC, August 4, 2006.
  10. Fluctuations with WA98 and STAR, Invited talk at SCIPP, Santa Cruz, United States. April 27<sup>th</sup>, 2006.
  11. Participated in American Physics Society (APS) Meeting, April 22-26, 2006, Dallas, Texas, TX, United States.
  12. Possibility of Disoriented Chiral Condensate study with STAR. Poster presentation at 18<sup>th</sup> International Conference on Ultra-Relativistic Nucleus-Nucleus collisions, Quark Matter, 2005, Budapest, Hungary.
  13. Disoriented Chiral Condensate with STAR, Bro Haven National Laboratory,
  14. Fluctuations in charged particles and Photons produced in Pb-Pb collisions at 158A GeV, The Seventeenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, Quark Matter 2004, Oakland, January, 11-17.
  15. DCC search in Pb-Pb Collisions by WA98 Collaboration, Poster presented in The 16<sup>th</sup> International Conference on ultra-relativistic Nucleus-Nucleus Collisions, Quark Matter 2002, Nantes, France, July 18-24, 2002.
  16. Event-by-event search for charged-neutral fluctuations in Pb-Pb collisions at 158A GeV. Fourth International Conference on Physics and Astrophysics of Quark Gluon Plasma Nov. 26-30. 2001 India. International Workshop on ALICE detector and Physics with LHC, 21-24 Nov., 2001.
  17. Poster on DCC results with WA98, International Symposium on Nuclear Physics. August, 2001. India.
  18. Event-by-event search for DCC. M.M.Aggarwal, V.S.Bhatia, G.Sood and Y.P.Viyogi for WA98 Collaboration, Appeared in Proceedings of DAE Symposium on Nuclear Physics, Hyderabad, Dec. 22-26, 2000.
  19. Event-by-event DCC search in Pb-Pb collisions. WA98 Collaboration, Appeared in DAE Symposium of Nuclear Physics, Vol. 42B, Dec. 27-31, 1999.

**Awards and Recognition:** Qualified **GATE 1998**, Percentile :85.85