Bio-data of Prof. M.M. Aggarwal

Physics Department, Panjab University, Chandigarh

1. Name: Madan Mohan Aggarwal
2. Father's name: Sh. Krishan Dass Aggarwal
3. Date of birth: $23rd$ August,1950
4. Sex: Male
5. Marital status: Married
6. **Academic records:**

Degree	University	Year	Subjects	Class
B.Sc. I	Panjab University	1969	Phys.,Chem.,Math.	First State Merit Scholarship
B.Sc.(H.Sch.)	Panjab University	1972	Phys.,Chem.,Math.	First
M.Sc.(H.Sch.)	Panjab University	1973	Physics	First
Ph.D.	Panjab University	1980	Experimental High Energy Physics	

7. **Record of Academic services :**

Institution	From	To	Nature of work	Post held
Panjab Univ. Chandigarh,India	26.11.1978	11.11.1980	Research	Research Associate
State Univ. of New York,Buffalo, U.S.A.	17.11.80	31.05.1985	Research	Research Associate
Panjab Univ. Chandigarh,India	1.10.1985	2.10.1988	Teaching and Research	Pool Officer CSIR
Panjab Univ. Chandigarh,India	3.10.1988	20.11.1994	Teaching and Research	Lecturer
Panjab Univ. Chandigarh,India	21.11.94	20.11.02	Teaching and Research	Reader
Panjab Univ. Chandigarh,India	21.11.02	10.3.11	Teaching and Research	Professor
Panjab Univ. Chandigarh,India	11.03.11	Date	Teaching and Research	Professor(Re-emp.)

8. **TEACHING**

(i) Courses Taught :

M.Sc.(Hon. Sc.)

- Electronics I
- Electronics II
- Particle Physics I
- Statistical Mechanics
- Practicals M.Sc. II, M.Sc. I
- M.Sc. Project work

B.Sc.(Hon.Sch.)

- Nuclear and Particle Physics
- Waves and Oscillations
- Mechanics
- Modern Physics
- Thermal Physics
- Optics
- Practicals B.Sc. I,B.Sc. II, B.Sc. III

(ii) Participated in the conduct of university examinations

(a) Number of question papers set :

- M.Sc.(Hon. Sch.)
- B.Sc. (Hon. Sch.)
- Ph.D./M.Phil entrance test
- M.Sc. entrance test(OCET)

- Common Entrance test(CET) for admission in B.Sc.(Hon. Sch.)

(b) Number various examinations for which evaluation was done:

- M.Sc.(Hon. Sch.)
- M.Sc.(TYC)
- B.Sc.(Hon.Sch.)
- M.Sc. Project work
- M.Phil Thesis

(iii) Participated in the committee work in the Department/University

- Incharge of Teaching assignment(1991-1994)
- Secretary of the UGAPMAC(2005-2008)
- Convenor of the UGAPMAC(2005-2010)
- Member of the following committees as per univeristy rules: Administrative committee,Academic committee,Technical committee and teaching & time table committee of the Department
- Faculty of Science
- Academic council of the University

9. **RESEARCH**

- Number of Ph.D. theses supervised: completed:6, ongoing:4
- Number of M.Phil dissertations supervised: completed:4
- A brief summary of research work: Please see Annexure I
- Details of Research projects (joint/independent): Please see Annexure II
- Visited CERN, Geneva and BNL,Upton, New Yok for research: Please see Annexure III
- Any other relevant information: Please see Annexure IV
- Recent presentations in International Conferences: Please see Annexure V
- List of publications: Please see Annexure VI

Annexure I

A brief summary of research work.

I worked on the particle production mechanism in nucleus-nucleus interactions at 200 GeV/c and 400 GeV/c using Emulsion Technique for my Ph.D. thesis and published a dozen papers in journals of International repute. The multiple scattering model of Capella and Krzywicki explained resonably well the particle production in A-A collisions. During this period I also helped in setting up the Bubble chamber film analysis work at Panjab University. I learned the software and modified according to our needs at Chandigarh. Our group was the first to set up Bubble chamber film analysis work in the Indian university system. Here, I got the expertise in computer programming.

I joined State University of New York at Buffalo as a Research Associate in November 1980 and contiued there till May 31, 1985. Here, I got the opportunity to work on the then current problem of Anomalons' production in Nucleus - Nucleus collisions at the Bevalac energies. We (P.L.Jain,M.M.Aggarwal,G. Das and K.B. Bhalla) were the first to report the non-existence of anamalons in alpha projectile fragments of Iron beam interactions in nuclear emulsion. The Physics Today reported that scientists are seeing anomalons but Buffalo group is the only one who has reported null results. Later on other scientists also supported our claim of non-existence of anomalons. I also worked on the angular distributions of Helium and found that the angular spread is of the order Fermi motion of nucleons.

I joined the Experimental High Energy Physics group at Panjab University in June 1985. I worked mainly on the heavy ion induced interactions using Emulsion Technique and published papers on the projectile fragmentation and particle production in these collisions. Our group joined the EMU01 collaboration in 1988. The EMU01 collaboration tried to search for the formation of Quark- Gluon Plasma in Sulphur and Lead ions induced interactions in Emulsion at the CERN SPS. The non-statistical fluctuations in the particle production were observed and we found that the energy density achieved in a collision with Sulphur/Lead ion is in the range of QGP formation. We also observed the Gaussian nature of the rapidity distribution for the produced particles. We carried out the detailed analysis on the projectile and target fragmentations in these collisions. One student completed Ph.D.

thesis on this work under my supervision.

In 1989, the group joined WA93 collaboration to study the Sulphur and Lead ions induced collisions at the CERN SPS. It was a new feature in the Indian university system and we were the first to join the CERN based counter experiment. Indian collaboration offered to built the Photon Multiplicity Detector with plastic scintillators and clear fibres for the WA93 experiment. I contributed in all its activities including detector design, Geant simulation studies for optimizing the PMD parameters i.e, detector thickness and pad size, fabrication, clustering software and data analysis. The first MIP signal in the WA93 PMD was found by me using the isolated pad signal software developed by me. On the basis of the analysis of the WA93 PMD data, we improved the WA98 PMD detector design to have a better image on CCD camera by incorporating the several modifications including the use of short-length WLS fibre coupled to a clear fire. A part of the detector was made in the laboratory here at Panjab University and was delivered in the time frame decided by the collaboration. I actively participated in the WA98 data analysis and worked on the non-statistical fluctuations, charged-neutral fluctuations, elliptic flow etc. I developed a Sliding Window Method to pick up patches in η-ϕ phase space event-by-event having anomalous charged-neutral fluctuations. One can extract events having anomalous fluctuations with this method which is not possible with other available methods. Moreover,the sensitivity of this method is almost two orders of magnitude better than other methods. One student worked on the charged-neutral fluctuations in Pb-Pb collisions at 158 AGeV/c and completed Ph.D. thesis under my supervision.

In 1994, I joined the ALICE collaboration. Indian team decided to make the Photon Multiplicity Detector for the ALICE. It was decided to have honeycomb type proportional gas detectors. I carried out the Geant simulation to optimize the detector parameters. I took part in various test beam runs for the honeycomb proportional gas detectors at the CERN SPS. I analysed the test beam data for the PMD Technical Design Report. The Indian team joined the STAR experiment at the Brookhaven National Laboratory and installed the PMD in STAR experiment at RHIC,BNL. I am involved in the STAR data analysis viz., photons' pseudo-rapidity distributions,net charge fluctuations, transverse momentum fluctuations and correlations and ellitic flow. One of my students completed Ph.D. thesis on net charge fluctuations and photons' pseudo-rapidity distributions in Cu + Cu collisions at 200

AGeV. It is found that most central Au + Au collisions at 200 GeV approach the prediction of resonance gas rather than the prediction of Quark Gluon Plasma formation. One of my students completed his thesis work on Identified particle spectra and transverse momentum fluctuations and correlations. He analysed the low energy run i.e., Au + Au at 9.2 GeV and found it is possible to have energy scan at RHIC to find the tricritical point. Another student worked on the elliptic flow, non flow and elliptic flow fluctuations in Au-Au collisions at the top RHIC energy. One student got Ph.D on the production of light particles and anti-particles in Pb-Pb collisions at LHC energy.

I have worked on the following problems of current interest :

- Production mechanism of hadrons in hadron-nucleus interactions.
- Development of Bubble Chamber film analysis programme studying $p - \bar{p}$ annihilations.
- Anomalons' production in heavy-ion collisions.
- Nuclear fragmentation of Silicon and Neon beams for medical use.
- Production mechanisms of hadrons,projectile fragments and target fragments in heavy-ion collisions.
- Fabrication of Photon Multiplicity Detector (PMD) using plastic scintillator for the WA93 and WA98 experiments at the CERN SPS.
- Development of honeycomb proportional detectors for the STAR experiment at the RHIC and for the ALICE experiment at the LHC.
- Developed a Sliding Window Method to search patches η-ϕ phase space having anomalous fluctuations event-by-event.
- Signatures of Quark Gluon Plasma formation in heavy ion collisions (i.e.,Direct photons, Disoriented Chiral Condensate, Fluctuations, Flow etc.).

Annexure II

Details of completed Research projects (joint/independent)

i)Search for Quark-Gluon-Plasma formation in Sulphur and Lead induced reactions at the CERN SPS (WA93 and WA98), 1992-95.

Funded jointly by DST (12.67 lacs), UGC (Rs.9.0 lacs)
PI : Prof. V.S. Bhatia and Co-PI : M.M. Aggarwal
and DAE (Rs. 3.33 lacs),1992-95.
PI : M.M. Aggarwal and Co-PI : Prof. V.S. Bhatia

ii)Study of relativistic heavy ion intercations using nuclear emulsions (EMU-01),1992-1995.
Funded by DST (Rs. 20.0 lacs)
PI : Prof. V.S. Bhatia and Co-PI : M.M. Aggarwal

iii)Search for Quark-Gluon-Plasma formation in Lead induced reactions at the CERN SPS (WA98),1997-2000.

Funded jointly by DST (8.0 lacs), UGC (Rs.9.0 lacs)
PI : Prof. V.S. Bhatia and Co-PI : M.M. Aggarwal
and DAE (Rs. 3.33 lacs),1995-1999.
PI : M.M. Aggarwal and Co-PI : Prof. V.S. Bhatia

iv)Study of relativistic heavy ion intercations using nuclear emulsions (EMU-01),1995-1998.
Funded by DST (Rs. 10.0 lacs)
PI : Prof. V.S. Bhatia and Co-PI : M.M. Aggarwal

v)Research and development for photon multiplicity detector in the ALICE experiment at CERN LHC,1998-1999.
Funded by DST (Rs. 1.20 lacs).
PI : M.M. Aggarwal and Co-PI : Dr. A.K. Bhati

vi) International Collaboration for the study of Quark Gluon Plasma at the Large Hadron Collider (Indian Participation in ALICE Experiment) ,2000-2008.

Funded by DST (Rs. 139.5 lacs)
PI : M.M. Aggarwal and Co-PI : Dr. A.K. Bhati

vii) Setting up of computing centres(Tier/2/3 centres) in the country for CMS and ALICE projects at CERN Geneva (ALICE experiment),2004-2010.

Funded by DST (Rs. 78 lacs)

PI : M.M. Aggarwal and Co-PI : Dr. A.K. Bhati

viii) Pre-Operative Proramme for Indian Participation in the FAIR project at GSI, Darmstadt,Germany - Accelerator and Detector Related R & D and Prototyping - CBM,2009-2010.

Funded by DST (Rs. 22 lacs)

PI : M.M. Aggarwal and Co-PI : Dr. A.K. Bhati

ix) A Large Ion Collider Experiment (ALICE) Operation and utilization, 2009-2010.

Funded by DST (Rs. 34 lacs)

PI : M.M. Aggarwal and Co-PI : Dr. A.K. Bhati

x) ALICE Operations and Utilozation, (Indian Participation in ALICE Experiment) 2009-14. Funded by DST (Rs. 192.0 lacs)

PI : M.M. Aggarwal and Co-PI : Dr. A.K. Bhati

xi) India LHC Grid Collabortion - Enhancement of Regional World wide Computing Grid(WLCG) (ALICE experiment) 2009-14. Funded by DST (Rs. 29.13 lacs)

PI : M.M. Aggarwal and Co-PI : Dr. A.K. Bhati

Annexure III

Visited CERN,Geneva and Brookhaven National Laboratory, Upton,New York for research

Actively participated in the international collaborations (WA93,WA98,STAR and ALICE) work including detector testing, data taking etc., at the CERN,BNL as given below :

- Visited CERN from Aug. 1991 to Nov. 1991, June 1992 to July 1992 for testing Photon Multiplicity Detector (PMD) and data taking for the WA93.
- Visitied CERN from June 1993 to July 1993 and Nov. 1994 to Jan. 1995 for testing Photon Multiplicity Detector (PMD) and analysis of WA98 PMD.
- Visited Brookhaven National Laboratory , Upton, New York,USA from Nov. 1995 to Dec. 1995 for the STAR PMD simulation work.
- Visitied CERN from June 1997 to July 1997, May 1998 to July 1998 for the WA98 data analysis.
- Visitied CERN from May 1999 to July 1999, June 2000 to July 2000, Feb. 2001 to March 2001, May 2001 to July 2001 and June 2002 to July 2002 for testing PMD for STAR and ALICE experiments, simulation, software etc.
- Visited BNL from Jan 2004 to March 2004 for STAR data taking and analysis and visited BNL in Feb. 2005 for the STAR collaboration meeting.
- Visited CERN in Oct. 2004, Oct. 2005, March 2006 and Oct. 2007 to attend the ALICE collaboration meeting and the software meeting.
- Visited BNL Nov. 1995 to Dec. 1995 for the STAR PMD simulation work.
- Visited BNL May - June 2007 and Dec. - Jan. 2008 for taking STAR experiment shifts and data analysis.

- Visited CERN May-June 2008 and Sep. 2008 for ALICE PMD installation.
- Visited BNL April 2009 and April 2010 for taking STAR experiment shifts and data analysis.
- Visited CERN June-July 2009 for the ALICE PMD installation.
- Visited CERN June-July 2010 and November-December 2010 for ALICE data taking.
- Visited CERN June-July 2011 and November-December 2011 for ALICE data taking.
- Visited CERN June-July 2012 and November-December 2012 for ALICE data taking.
- Visited CERN June-July 2013 and November-December 2013 for ALICE data taking and data analysis.
- Visited Brookhaven National Laboratory Feb. 2014 to attend the STAR collaboration meeting.

Annexure IV

Any other relevent information:

- We (P.L.Jain,M.M.Aggarwal,G.Das and K.B.Bhalla) were the first to report the non-existence of anomalons in alpha projectile fragments in heavy ion interactions at 2 AGeV.

- Co-author of paper on direct photons by the WA98 collaboration, on the basis of which Discovery of QGP was reported in 2000 by CERN.

- Co-author of papers by the STAR collaboration on the strongly interacting matter produced in heavy ion collisions at RHIC behaving as a perfect liquid.

- Co-author of papers by the ALICE collaboration on the strongly interacting matter produced in heavy ion collisions at LHC behaving as a perfect liquid.

- **Co-author in a Review article:**

  Review of rapidity density distributions in heavy ion induced interactions at relativistic energies, M.M.Aggarwal and S.I.A. Garpman, **Int'l J. Mod. Phys. E 4**(1995)477.

- **Invited talks**

  (i) Results from emulsion experiments at the AGS and SPS, 3rd Int'l Conf. on Physics and Astrophysics of Quark Gluon Plasma (ICPA-QGP'97), Jaipur,India Jan.,1997.

  (ii) WA98 Photon Multiplicity Detector results, Workshop on high energy physics experiments, Jaipur, Jan. 1996.
  (iii) Event-by-event charged neutral fluctuations in Pb-Pb collisions at 158 AGeV ,QGP meet 2004, Institute of Physics ,Bhubaneswar, Oct.

2004.

- **Extension Lectures**

  (i) Quark Gluon Plasma formation in heavy ion collisions, SERC school on Nuclear Physics, Mysore, 1994.
  (ii) Detectors in high energy physics, SERC school on Nuclear Physics, BARC, Mumbai, 2000.
  (iii) On computation, SERC school in experimental high energy physics, Chandigarh, 2005.

- Refereed projects for funding by the Department of Science and Technology

Annexure V

Recent presentations in the International Conferences :

1. First results from Au+Au collisions at 9.2 GeV in STAR, **Strange Quark Matter 2008**, Beijing, China.

2. Elliptic flow of jet triggered events in heavy-ion collisions at RHIC energies,**Hot Quarks 2008 workshop** ,Colorado, USA.

3. Elliptic flow of ridge-like and jet-like events produced in heavy- ion collisions at RHIC energies,International Conference on High Energy Physics **ICHEP 2008**,Philadelphia, USA.

4. Energy and system size dependence of p_t fluctuations and correlations in STAR experiment at RHIC,poster,**Quark Matter 2008** , Jaipur,India.

5. Measurement of photon multiplicity at forward rapidity in ALICE, poster,**Quark Matter 2008**, Jaipur,India.

6. Event-by-event investigation of charged neutral fluctuations in heavy ion collisions using DWT technique,poster,Madan M. Aggarwal and Yogendra P. Vigogi,**Quark Matter 2008**, Jaipur, India.

7. Investigation of high p_t events in Nucleus-Nucleus collisions using the Hijing event generator,poster,Natasha Sharma and Madan M. Aggarwal, **Quark Matter 2008**, Jaipur,India.

8. Beam-Energy and System-Size Dependence of photon production at forward rapidities at RHIC,poster,**Quark Matter 2006**, Shanghai, China, **Int'l Jour. Mod. Phys. E16**,1845,2007.

9. Event-by-event search for charged-neutral fluctuations in Pb-Pb collisions M.M.Aggarwal et al.,(WA98 Collab.), poster, **Qurak Matter 2004**,Oakland,CA,USA.

10. Event-by-event search for charged-neutral fluctuations in Pb-Pb collisions M.M.Aggarwal et al.,(WA98 Collab.),poster, **Qurak Matter 2002** ,Nanat,France.

11. Event-by-event search for charged-neutral fluctuations in Pb-Pb collisions M.M.Aggarwal et al.,(WA98 Collab.), **ICPAQGP 2001**,Jaipur, India, **Pramana** 60(2003)987.

Annexure VI

Publications in Scientific Journals:

1. Charged particle multiplicity in 400-GeV/c p-Nucleus interactions in Nuclear Emulsion,M.M Aggarwal et al.,**Nucl.Phys.B131**:61,1977.

2. Characteristics of Fireballs in 400-GeV/c proton - nucleon collisions, M.M Aggarwal, I.S. Mittra, J.B. Singh, P.M. Sood, B. Bhowmik, P.K. Sengupta, S. Singh,**Lett.Nuovo Cim.22**:108,1978.

3. Study of angular distributions of secondaries in proton - nucleus interactions at 400-GeV, M.M Aggarwal, I.S. Mittra, J.B. Singh, P.M. Sood,**Lett. Nuovo Cim.24**:183,1979.

4. Study of rapidity gap correlations in 400-GeV/c p-N interactions P.K. Sengupta, N.S. Arya, D.P. Goyal, J.N. Misra, A. Mozumder, S. Singh (Delhi U.) , M.M. Aggarwal, I.S. Mittra, J.B. Singh, P.M. Sood,**Phys. Rev. D20**,601,1979.

5. Study of elastic (π^- p) and coherent (π- C) cross-section at 40-GeV/c Using Propane (C_3H_8) Bubble Chamber,M.M. Aggarwal et al., **J.Phys.Soc. Jap.47**:1747,1979.

6. Characteristics of p-N interactions at 400-Gev/C in Emulsion, P.K. Sengupta, N.S. Arya, D.P. Goyal, A. Mozumder, S. Singh, M.M. Aggarwal, I.S. Mittra, J.B. Singh,P.M. Sood, **Phys.Scripta 21**:17,1980.

7. Characteristics of slow protons and deuterons in proton-nucleus interactions At 400-Gev/C,M.M. Aggarwal, I.S. Mittra, J.B. Singh, P.M. Sood,**J. Phys.Soc.Jap.48**:361,1980.

8. On the production mechanism of deuterons in proton-nucleus interactions At 400-Gev/C,M.M. Aggarwal, J.P. Lamba, I.S. Mittra, J.B. Singh, P.M. Sood,**Nuovo Cim.A56**:422,1980.

9. Four momentum transfer between groups of secondary particles in proton- nucleus interactions At 200-GeV,I.K. Daftari, V.K. Gupta, G.L.

Kaul, L.K. Mangotra, Y. Prakash, N.K. Rao, S.K. Sharma, G. Singh, M.M. Aggarwal,**Phys.Rev.D23**:14,1981.

10. Charm production in 400-gev/c proton-emulsion interactions, T. Aziz et al.,Bombay-Chandigarh-Delhi-Jammu Collaboration, **Nucl. Phys.B199**: 424,1982.

11. Behavior of secondary alpha particles produced from relativistic heavy ion collisions,P.L. Jain, M.M. Aggarwal, G. Das, K.B. Bhalla **Phys. Rev.C25**:3216,1982.

12. Behavior of secondary particles emitted in relativistic heavy ion interactions,M.M. Aggarwal, K.B. Bhalla, G. Das, P.L. Jain, **Phys. Lett.B 112**:31,1982.

13. Rapidity gap correlation in proton-nucleus interactions at 200-GeV/c and 400-GeV/c,M.M. Aggarwal, J.P. Lamba, I.S. Mittra, J.B. Singh, P.M. Sood,**J.Phys.Soc.Jap.51**:353,1982.

14. Mechanism of hadron production in proton-nucleus interactions at 400-GeV,M.M. Aggarwal , I.S. Mittra, P.M. Sood , **Nucl.Phys.B206**:193,1982.

15. The role of gray tracks in proton-emulsion nuclei interactions at 400-GeV,M.M. Aggarwal, J.P. Lamba, I.S. Mittra, P.M. Sood, **Phys.Scripta 26**:262,1982.

16. Angular distributions of relativistic alpha particles in heavy ion collisions,M.M. Aggarwal, K.b. Bhalla, G. Das, P.l. Jain, **Phys.Rev.C27**: 640,1983.

17. Particle correlations in multiparticle production in proton-nucleus interactions At 200-Gev And 400-GeV,M.M. Aggarwal, I.S. Mittra, P.M. Sood,**Phys.Rev.D29**:150,1984.

18. Projectile independence of charged particle multiplicity ratio in hadron-nucleus interactions at high-energies,M.M. Aggarwal, **Phys.Scripta 29**:202,1984.

19. Mean free Paths of He, Li, and Be produced in heavy ion collisions at 2-Gev/U,A.Z.M. Ismail, M.S. El-Nagdy, K.L. Gomber, M.M. Aggarwal, P.L. Jain,**Phys.Rev.Lett.52**:1280,1984.

20. Fission of Uranium nuclei in flight at relativistic energies, P.L. Jain, M.M. Aggarwal, M.S. El-Nagdy, A.Z.M. Ismail, **Phys.Rev.Lett.52**: 1763,1984.

21. Anomalous behavior of projectile fragments of charges >= 15 from 1.52-AGEV $^{84}Kr_{36}$,P.L. Jain, M.M. Aggarwal, K.L. Goomber, **Phys.Rev. Lett. 52**: 2213,1984.

22. Experimental study of proton-emulsion nuclei interactions at high-energy,M.M. Aggarwal, I.S. Mittra, P.M. Sood, **Z.Phys.C26**: 323,1984.

23. Studies of $p-\bar{p} -> n-\bar{n}$ and $n-\bar{p}$ annihilation at incident momenta of 700-MeV/c AND 760-MeV/c,S. Banerjee et al., Bombay-Chandigarh-Jammu-Tokyo Collaboration,**Z.Phys.C28**:163,1985.

24. Investigation of anomalons in He fragments, P.L. Jain, K.L. Gomber, M.M. Aggarwal, V. Rani, **Phys.Lett.B154**:252-254,1985.

25. Momentum and Boltzmann distributions of Neon fragments at approximately 300-Mev/Nucleon,M.M. Aggarwal,P.L. Jain, **Phys.Rev.C31**: 1233,1985.

26. Search for energy and target effects in anomalous projectile fragment production, M.M.Aggarwal,P.L.Jain and K.L.Gomber, **Phys.Rev.C32**: 666, 1985.

27. Nuclear fragmentation of clinical Silicon beam, P.L. Jain, M.M. Aggarwal,K.L.Gomber and M.S.El-Nagdy, **Radiation Research,101**,225,1985.

28. Primary and secondary radiation dose from Neon beam fragmentation, P.L.Jain and M.M.Aggarwal, **Radiation Research,103**,317,1985.

29. Fragments of charges 3 <= Z <= 14 from ^{84}Kr and ^{40}Ar at relativistic energies,P.L.Jain,M.M.Aggarwal and K.L.Gomber, **Phys.Rev.C34**:726,1986.

30. Onset of Helium fragment scaling in heavy ion collisions, P.L. Jain, M.M. Aggarwal,**Phys.Rev.C33**:1790,1986.

31. A study of $\bar{n}$ p annihilations between 0.5-Gev/C and 0.8-Gev/C, S. Banerjee et al.,Bombay-Chandigarh-Jammu-Tokyo collaboration, **Z.Phys.C 32**:163,1986.

32. Study of inelastic alpha-emulsion interactions At 12-Gev/C, V.S. Shukla et al.,**Mod.Phys.Lett.A3**:1753,1988.

33. Coherent production of π^+ π^- mesons by charged current interactions of neutrinos and anti-neutrinos on neon nuclei at the Tevatron, M. Aderholz et al.,E632 Collaboration, **Phys.Rev.Lett.63**:2349,1989.

34. Scaling properties of charged particle multiplicity distributions in Oxygen induced emulsion interactions at 14.6-A/GeV, 60-A/GeV and 200-A/GeV,M.I. Adamovich et al.,**Phys.Lett.B223**:262,1989.

35. Limiting fragmentation in Oxygen induced emulsion interactions at 14.6-A/Gev, 60-A/GeV AND 200-A/GeV,,M.I. Adamovich et al., **Phys.Rev. Lett.62**: 2801,1989.

36. A search for nonstatistical particle density fluctuations in ^{16}O -Ag (Br) and ^{32}S-Au interactions at 200-A/GeV,M.I. Adamovich et al., **Nucl.Phys. A498**:541,1989.

37. Production of Helium (z = 2) projectile fragments in ^{16}O emulsion interactions from E/A = 2-GeV to 200-GeV,M.I. Adamovich et al., **Phys.Rev.C40**:66,1989.

38. Charged particle spectra in Oxygen induced reactions at 14.6 GeV/Nu -cleon and 60 GeV/Nucleon,M.I. Adamovich et al., **High Energy Phys.Nucl. Phys.13**: 341,1989.

39. A study of recoil protons in ultrarelativistic nucleus-nucleus collisions, M.I. Adamovich et al.,EMU01 Collaboration, **Phys.Lett.B230**:175,1989.

40. Rapidity densities and their fluctuations in central 200-A/GeV S^{32} interactions with Au and Ag, Br nuclei,M.I. Adamovich et al., EMU01 Collaboration,**Phys.Lett.B227**:285,1989.

41. Investigation of R_ν relationship in hadron-nucleus collisions At High-Energies,M.M. Aggarwal, M. Kaur, V.S. Bhatia, I.S. Mittra,**Phys.Scripta 39**:47,1989.

42. Study of clusters and heavy clusters in alpha-emulsion interactions at 12-A/Gev/C,V.S. Shukla et al.,**Int.J.Mod.Phys.A4**:4845,1989.

43. Target nucleus fragmentation in ^{16}O + (Ag, Br) interactions at 200-A/GeV,M.I. Adamovich et al.,EMU01 Collaboration, **Phys.Lett.B234**: 180,1990.

44. Dimuon production by neutrinos in the Fermilab 15-Ft. Bubble Chamber at the Tevatron,V. Jain et al.,E632 Collaboration, **Phys.Rev. D41**:2057,1990.

45. On the multiplicity fluctuations in relativistic heavy ion collisions, M.I. Adamovich et al.,EMU01 Collaboration, **Phys.Lett.B242**:512,1990.

46. On the energy and mass dependence of the multiplicity in relativistic heavy ion interactions,M.I. Adamovich et al.,EMU01 Collaboration, **Mod.Phys.Lett.A5**:169,1990.

47. Scaled factorial moment analysis of 200-A/GeV Sulfur + Gold interactions,M.I. Adamovich et al.,EMU01 Collaboration, **Phys.Rev.Lett.65**:412, 1990.

48. Rapidity dependence of multiplicity distributions in alpha emulsion interactions at 12.4-A/GeV,M.M. Aggarwal et al., **Int.J.Mod.Phys.A5**:3985, 1990.

49. Limiting fragmentation, scaling and substructural dependence of multiparticle production in high-energy heavy ion reactions, M.I. Adamovich et

al.,EMU01 Collaboration, **Phys.Scripta T32**:168,1990.

50. Energy, target, projectile and multiplicity dependences of intermittency behavior in high-energy O (Si, S) induced interactions, M.I. Adamovich et al.,EMU01 Collaboration,**Z.Phys.C49**:395,1991.

51. Hadron production in the restricted rapidity intervals in proton- nucleus interactions at high-energies,M.M. Aggarwal, **Int.J.Mod.Phys.A6**:865, 1991.

52. Stochastic emission of particles in ultrarelativistic heavy ion collisions,M.I. Adamovich et al.,EMU01 Collaboration, **Mod.Phys.Lett.A6**:469, 1991, Erratum-ibid.**A6**:1629,1991.

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