




महात्मा ज्योतिबा फुले
कृषिविद्यालय, बरेली

Faculty Profile on University Website

www.mjpru.ac.in

Title	Prof.	First Name	Mohammad Saleem	Last Name	Khan	Photograph
Designation	Professor (Since 31-03-2011)					
Department	Physics					
Address (Campus)	Department of Physics M.J.P. Rohilkhand University					
(Residence)	H.No. 8, Sector-3, Green Park Extension Colony Bareilly 243006					
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Educational Qualifications (Graduation Onwards)						
Course/Degree	Institution	Year	Details/Thesis Topic/Subjects			
B.Sc(Hons. Physics)	Jamia Millia Islamia New Delhi	1986	Main-Physics Subsidiary- Chemistry and Maths			
M.Sc	Jamia Millia Islamia New Delhi	1988	Material Physics			
PhD (Experimental High Energy Physics)	Jamia Millia Islamia New Delhi	1993	Title of Thesis- Some Aspects of Multiparticle Production in High Energy Nucleus- Nucleus Interactions.			
Career Profile						
Organization / Institution	Designation	Duration	Role			
1. Y.M.D. College Gurgaon, M.D. University. Rohtak	Lecturer	16/12/93– 11/11/97	Teaching			
2. Deptt. of Physics Jamia Miliya Islamia, New Delhi	Lecturer	12/11/97– 06/02/99	Teaching			
3. I.E.T. Dr. B. R. Ambedkar University. Agra	Lecturer	10/02/99– 28/09/02	Teaching			
4. Deptt. of Applied Physics Faculty of Engg. & Tech. M.J.P. Rohilkhand Univ. Bareilly	Reader & Professor	30/09/2002 – Continued...	Teaching			
Research Interests / Specialization						
Experimental High Energy Physics						
Teaching Experience (Subjects/Courses Taught)						

27 Years of Teaching to M.Sc, B.Sc, B.Tech Students along with pre. Ph.D course of Ph.D Students

B.Sc.- Mechanics, Thermodynamics, Electricity and Magnetism, Waves and Oscillations, Optics, Electronics, Solid State Physics, Atomic Physics.

M.Sc.- Nuclear Physics, Particle Physics, Electromagnetic Theory.

B.Tech.- Compulsory papers PH-101T and PH102T

Per. Ph.D.- Experimental Techniques in High Energy Physics, Elementary Particle interactions and Their Modes of Decays, Nuclear Reactions.

Publications /Academic Activities (Numbers Only)

Books & Monographs (Single Author)	02	Research Papers Published in International Journals	16	Papers Presented in Seminars/ Conferences	12	Seminars/ Conferences Organized	11	Research Projects (Completed)	-
Books (Co-authored)	01	Research Papers Published in Other Journals	-	Seminar/ Conferences Attended	20	Workshops Organized	30 (including TPC)	Research Projects (Ongoing)	-
Books (Edited)	01	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	-	Sessions Chaired in Seminars/ Conferences	02	Membership of Academic/ Professional Bodies	02	Foreign Countries Visited for Academic Assignments	-
Chapters in Edited Books	01			Resource Lectures Delivered	08				

Details of Publications /Academic Activities (2010 Onwards)

(a) Books / Monographs

<u>Year of Publication</u>	<u>Title</u>	<u>Publisher</u>	<u>ISBN</u>	<u>Co-Author (s) (if any)</u>
2010	Multiparticle Production in Nucleus-Nucleus Interactions at 4.5 A GeV.	Sahitya Ratnalaya Publishers & Distributors, Kanpur	9788183780506	

(b) Edited Books

<u>Year of publication</u>	<u>Title</u>	<u>Publisher</u>	<u>ISBN</u>	<u>DOI No.</u>
2011	Advancements and Futuristic Trends in Material Science	Allied Publishers Pvt. Ltd	978-81—8424-706-0	

(b) Papers Published in Indexed/ Peer Reviewed Journals

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>ISSN/ Indexing</u>	<u>Co-Author (s) (if any)</u>
2010	Interesting features of Multiplicity Characteristics of Grey Particles in Nucleus-Nucleus collisions at 4.5 A GeV	International Research journal of Management Science & Technology	2250-1959	
2011	Various Features of different multiplicity correlations in 12C Nucleus reactions at 4.5 A GeV	Research journal of Science & Technology	2454-3195	

2015	Impact of Grey Particles Multiplicity on the Characteristics of Particle Production in 4.5 AGeV/c ¹² C-Nucleus Interactions.	International Organization of Scientific Research (IOSR) Journal of Applied Physics (JAP)	2278-4861	
2015	Some Results on Multiplicity Correlations in Catastrophic Destruction of ¹² C-AgBr Collisions at 4.5 AGeV.	International Organization of Scientific Research (IOSR) Journal of Applied Physics (JAP)	2278-4861	
2015	Interesting features of Catastrophic Destruction of ¹² C-AgBr Collisions at 4.5 A GeV.	International Journal of Science & Research (IJSR)	2319-7064	
2016	Study of Normalized Moments of Relativistic Charged shower particles produced in 12 C-Nucleus Collisions at 4.5 A GeV”	International Journal of Science & Research	2319-7064	
2017	Dielectric study of carbon nanotube dispersed thermotropic liquid crystals	International Journal of nanotechnology and applications	2278-4777	
2017	Effect of U.V light irradiation on the dielectric behavior of liquid crystal/neon composite	Molecular, Crystals and liquid crystals	15421406	

(c) Articles

Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	DOI	Citation Google/web of science
National	International							
	01	Advances and Futuristic Trends in Material Science	Effect of Grey Particles Multiplicity On Angular Characteristics of Secondary Charged Particles Produced in ¹² C- nucleus collisions in 4.5 GeV/C.	Allied Publishers Pvt. Ltd.	2011	978-81—8424-706-0		01

(d) Seminar/Conference Presentations

01. Structural, Morphological and Third Order Nonlinear Optical properties of Y-doped Nano-crystalline Thin Films Deposited By Thermal Evaporation Method

Imran Ahmad Salmani, Zeeshan Khan, Gaurav Saxena, M. Saleem Khan, Javid Ali, M. Shahid Khan

In Indo-Australian Webinar on “Formulation and Characterization of Materials and their Broad Applications for Sustainable Environment And Therapeutics” FCMSET-2021 under the aegis of MHRD–SPARC scheme. Organised By –Department of Chemistry, Jamia Millia Islamia (A Central University), New Delhi, India, held during 1-2 March 2021.

02. Study of BiFeO₃ Nanoparticles for Non Linear Optical Applications

Imran Ahmad Salmani, Shafi ul Islam, Mohd. Saleem Khan, Mohd. Shahid Khan

In National Conference on “Nano-polysaccharides for Environmental Sustainability” under the aegis of MHRD-SPARC Scheme. Organised By- Department of Chemistry, Jamia Millia Islamia (Central University), New Delhi, India, on 25th September 2020.

03. Preparation and Characterization of Zinc Oxide Nanoparticles by sol-gel route

Gaurav Saxena, Imran Ahmad Salmani, Mohd. Saleem Khan

In fourth international conference on recent advances in science (ICRAS-2020). Organised by Faculty of science, Invertis university Bareilly U.P during 28-29 Feb 2020.

04. Sol-Gel synthesis of Zinc oxide Nanoparticles and their Characterization

Gaurav Saxena, Mohd. Saleem Khan

International e conference on “ Recent trends in Advancement of Mathematical and Physical Sciences, Deva Nagri College, Meerut, during 22-23 March, 2020.

05. Study of charged secondaries in Nucleus-Nucleus interactions at 4.5AGeV

Praveen Prakash Shukla, H. Khushnood and M. Saleem Khan

XXIV DAE-BRNS High Energy Symposium, organized by National Institute of Science Education and Research (NISER) Jatni Odisha during December 14th to 18th, 2020. (Virtual National conference)

06. Investigation of Third Order Non-Linear Optical Properties of Multiferroic Nanoparticles by Z-Scan Technique

Imran Ahmad Salmani, Tahir Murtaza , Mohd. Saleem Khan, Mohd. Shahid Khan in “International Conference on Advanced Materials, ICAM–2019”, In the Memory of Queen of Carbon – Prof. Mildred. S. Dresselhaus. Organised By -Centre for Nanoscience and Nanotechnology (CNN), Jamia Millia Islamia (A Central University), New Delhi, India, during 6-7 March 2019.

07. The study of multiparticle production in High Energy Nucleus-Nucleus interactions

Praveen Prakash Shukla and M. Saleem Khan

Proceedings of the DAE Symposium on Nucl. Physics 64 (2019)

64th DAE-BRNS Symposium on Nuclear Physics Vol 64(2019) held at Department of Physics, Lucknow University during December 23rd to 27th, 2019.

08. Non-linear Optical Properties of BiFeO₃ Nano particles

AIP Conference Proceedings **2115**, 030191 (2019); <https://doi.org/10.1063/1.5113030>

Imran Ahmad Salmani, Tahir Murtaza, Mohd. Saleem Khan, Mohd Shahid Khan

09. Synthesis and structural properties of multiferroic Bi_{0.95}Mg_{0.05}FeO₃

Imran Ahmad Salmani, Tahir Murtaza, Apurva Gupta, Mohd. Shahid Khan, Mohd. Saleem Khan, AIP Conference Proceedings 1953, 030132 (2018) <https://doi.org/10.1063/1.5032467>

10. Dependency of Mean Multiplicity on the average number of Intra nuclear collisions of charged secondaries in ¹²C nucleus interactions at 4.5A Gev

Proceedings of the DAE BRNS symposium on Nucl. Physics 63 (2018) held at BARC Mumbai during December 10 to 14th, 2018.

(Mohd. Saleem Khan, Praveen Prakash Shukla and H. khushnood)

11. Effect of Nd doping at A site on Structural and Electrical properties of multiferroic BiFeO₃

Imran Ahmad Salmani, Tahir Murtaza , Mohd. Saleem Khan, Mohd. Shahid Khan in “XIX International Workshop on The Physics of Semiconductor Devices (IWPSD 2017)” jointly organised by SSP Laboratory, Delhi ,DRDO and IIT Delhi, held from December 11-15, 2017 at Indian Institute of Technology, Delhi, India.

12. Dependency of multiplicity characteristics of charged secondaries in ¹²C nucleus interactions at 4.5A Gev:

(M. Saleem Khan, Praveen Prakash Shukla and H. khushnood)

Proceedings of 62nd DAE symposium on Nuclear Physics held on Dec 20-24, 2017 at Thapar University Punjab.

13. Synthesis of Zinc Oxide (ZnO) nanoparticles by Sol-gel technique using different precursors.

(Gaurav Saxena, Imran Ahmad Salmani, M. Shahid Khan and M. Saleem Khan)

*Proc. International Conference ICNSMH2016 held on **October 21-23**, held at Deptt. Of Applied Physics, M.J.P. Rohilkhand University, Bareilly (2016).* PP86

03 Dielectric study of Multiwall Carbon Nanotube Dispersed Nematic Liquid Crystal Mixture.

(Alok Chandra Dixit, K.K.Pandey, Pankaj Tripathy and M. Saleem Khan)

*Proc. International Conference ICNSMH2016 held on **October 21-23**, held at Deptt. Of Applied Physics, M.J.P. Rohilkhand University, Bareilly (2016).* PP132

04 Some features of Multiplicity correlations in ¹²C- Nucleus Reactions at 4.5 Gev.

(Praveen Prakash Shukla, H. Khushnood and M. Saleem Khan)

*Proc. International Conference ICNSMH2016 held on **October 21-23**, held at Deptt. Of Applied Physics, M.J.P. Rohilkhand University, Bareilly (2016).* OPC: 17

05 Study of Dependence of normalized multiplicity and reduced multiplicity on centre of mass system of charged secondaries in high energy heavy ion interactions at 4.5 A GeV

(M. Saleem Khan, Praveen Prakash shukla and H. Khushnood)

*61st DAE-BRNS Symposium on Nuclear Physics at Saha Institute of Nuclear Physics, Kolkata-700064, held on **Dec, 5-09, 2016.***

06 Interesting correlations among various parameters of charged secondaries in nucleus-nucleus interactions at 4.5 AGeV.

(M.Saleem Khan, Praveen Prakash Shukla and H.Khushnood)

*60th DAE Syphosium at Prashantinilyam A.P. held on **Dec, 7-12, 2015.***

07 Some results on Central ¹²C- AgBr collisions at 4.5 GeV

(M.Saleem Khan, Praveen Kumar Shukla and H. Khushnood)

*Proceedings of the DAE-BRNS International symposium on nuclear Physics volume – 58(2013) Bhabha Atomic Research Centre Mumbai, 400085, India, **December 2-6, 2013.***

08 Mechanism of charged particles production in Heavy Ion Interactions.

(M. Saleem Khan, Praveen Prakash Shukla and H. Khushnood)

InternationalConference, XX DAE- BRNS High Energy Symposium, Department of Physics,

Vishw Bharti Shanti Niketan, Feb 13-18, 2013.

09 Study of disintegration caused by 4.5 A GeV Carbon nuclei in nuclear emulsion.

(M. Saleem Khan, Praveen Prakash Shukla and H. Khushnood)

99th Indian Science Congress Bhubneshwar KIIT University Bhubneshwar, Jan 3-7, 2012.

10 Effect of Grey Particles Multiplicity On Angular Characteristics of Secondary Charged Particles Produced in ¹²C- nucleus collisions in 4.5 GeV/C.

(Khushnood Husain, Prithipal Singh, Praveen Prakash Shukla and M. Saleem Khan)

Proc. National Conference AFTMS2011 held on March 26-27, at Deptt. Of Applied Physics, M.J.P. Rohilkhand University, Bareilly (2011).

11 Effect of Grey Particles Multiplicity On cluster size in 4.5 GeV ¹²C nucleus collisions.

(Husain, Khushnood, Singh, Prithipal, Dr, Khan, M.Saleem and Shukla, Praveen Prakash)

6th ICPAQGP held at NIO, Goa Between Dec.6-10,(2010).

12 Some aspects of multiparticle production in 4.5 AGeV ¹²C nucleus interactions.

(Husain, Khushnood, Singh, Prithipal, Khan, M.Saleem and Shukla, Praveen Prakash)

6th ICPAQGP held at NIO, Goa Between Dec.6-10.(2010).

(e) Resource Lectures Delivered

Resource person	Detail of Event	Title of Lecture	Date	Institution
Prof. M. Saleem Khan	Lecture delivered	Various Aspects of Multiparticle Production in High Energy Nucleus – Nucleus Interactions	11-10-2010	Department of Physics, Dr B.R.A.U Agra
Prof. M. Saleem Khan	Lecture delivered	Basic Interactions existing in nature	26-11-2011	Dr. B.R.A.U Agra
Prof. M. Saleem Khan	Lecture delivered	Developments in experimental High energy Physics	7/07/2012	Dr. B.R.A.U Agra
Prof. M. Saleem Khan	Lecture delivered	Various decay modes of Mesons	27/12/17	Dr. BRAU Agra

(f) Seminars/Conferences/Workshops Organized

National

(1) **Organized** Science day function “Scinnovation” on the occasion of Raman noble work “Raman Effect” 27-28, feb. 2017.

(2) Organize in the capacity of **Convener** of one week workshop on “Innovative Research on Materials in Science and Engineering (IRMSE-16), organizing by FET, M.J.P. Rohilkhand University, Bareilly. (17.04.2016-22.04.2016)

(3) **Coordinator** of two days symposium held on “Wave lets and its applications in engineering problems”, between Dec 20-21, 2015.

(4) **Member of organizing Committee** of National Seminar on “**Organizing Farming for Sustainable Agriculture (OFSA)**” March 10-12, 2012, organized by Department of Animal Science, M.J.P. Rohilkhand University, Bareilly.

- (5) **Convener of National Conference on “Advancements and Futuristic Trends in Material Science (AFTMS-2011)”** between March 26-27, 2011.
- (6) **Member of organizing committee of National Seminar on Management of Environmental Pollution for sustainable Energy Production [April 10-11, 2010]** organized by Department of Plant Science, M.J.P. Rohilkhand University, Bareilly.
- (7) **Joint organizing Secretary of National Conference “Simulation and Characterization of Advanced Material” (SICHAM-2010)** between 17,18April 2010 Organized by Applied Physics, M.J.P. Rohilkhand University, Bareilly.

International

- (8) **Coordinator** in International Conference on **“New Scintillations on materials Horizons”**, organized by department of Applied Physics during Oct 21-23, 2016
- (10) **Organizing Secretary in “International Workshop” Futuristic Materials :- Characterisation, Properties and Application in Technology” (FMCPAT-2014)** between 17-22 July, 2014 organized by Deptt. of Applied Physics, M.J.P. Rohilkhand University, Bareilly.
- (11) **Organizing Secretary of, International Seminar on “Recent Trends in Material Science (RTMS)”** held on 21.11.2013 organized by deptt. of Applied Physics, M.J.P. Rohilkhand University, Bareilly (U.P.), India.
- (12) **Member of Organizing Committee : International Conference on Recent Trends in climate change Researchers vis-à-vis Biodiversity”** under the **“Centre of Excellence”** Government of U.P. in collaboration with the Indian Academy of Environmental Science from 3-4 Dec. 2012, organized by Department of Animal Science, M.J.P. Rohilkhand University, Bareilly.

Session Chaired in International Conference

Chair the session in the International Conference **“Academic Research in Engineering Management & Technology” (AREMAT)** held on February 21-23, 2015 organized by Department of Electronics & Communication and Development of Mechanical Engineering, Faculty of Engineering & Technology, M.J.P. Rohilkhand University, Bareilly (U.P.), India.

(g) Public Service / University Service / Consulting Activity

(h) Memberships of Academic/Professional Bodies

1. Life member of **Indian Science Congress Association**.
2. Life member of **Materials research Society of India (MRST)**

Projects (With Title, Year, Grants, Funding Agency and Collaborations)

N.A.

Administrative Positions/Assignments Held

Post	Organization	Duration	
		From	From
Head of the department	Physics department M.J.P.R.U, Bareilly	2008	2011
		2017	2020

Member of Executive council	M.J.P.R.U, Bareilly	2008	2008
Convener of Research Degree Committee (RDC)	M.J.P.R.U, Bareilly	2008	2011
		2017	2020
Assistant Dean Student welfare (ADSW)	M.J.P.R.U, Bareilly	2002	2009
Training and Placement Officer	M.J.P.R.U, Bareilly	2012	2017
University Proctorial Board	M.J.P.R.U, Bareilly	2003	2020
Convener of BOS department of Physics	M.J.P.R.U, Bareilly	2008	2011
		2017	2020
Academic Foreign Visits			
N.A.			
Any Other Details			
N.A.			

Signature of Faculty Member
(in Hard Copy Only)

Note: Please submit this file to E-mail ID: rkg@mjpru.ac.in through your own E-mail ID.