



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

(Phone No. - 011-7121 9084 : Email - principal@kmc.du.ac.in)



Print Date : 15-04-2026

## 1. Personal Profile

Title: **Prof.** First Name: **AGAM** Last Name: **KUMAR JHA**

Designation: **PROFESSOR** Mobile No. **9899392894**

Phone No. (Office) **011-47563502** Phone No. (Residence): **01147563502**

Email: **dragamjha@kmc.du.ac.in** Webpage: -----



Facebook: ----- Twitter: -----

LinkedIn: ----- Instagram: -----

Youtube: ----- Research Gate Link: -----

Google Scholar Link: -----

Address: **398, DA BLOCK, SHALIMAR BAGH, DELHI-110088**

## 2. Educational Qualifications

Degree/ Certification	Institution	Year
Ph. D. (PHYSICS (THEP))	Department of Physics and Astrophysics, University of Delhi, Delhi	2007
Ph. D. in Physics	Department of Physics and Astrophysics, University of Delhi, Delhi (India)	2007

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	07.Jun.2010 - 06.Jun.2018	
CAREER PROFILE	ASSOCIATE PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	07.Jun.2018 - 06.Oct.2022	
CAREER PROFILE	PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	07.Oct.2022 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	HOSTEL ADMISSION COMMITTEE KIRORI MAL COLLEGE, DELHI	05.Oct.2023 - Till date	

ADMINISTRATIVE ASSIGNMENTS	CONVENER	COORDINATING COMMITTEE FOR INFORMATION AND TECHNOLOGY KIRORI MAL COLLEGE, DELHI	05.Aug.2021 - 10.Jun.2023	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PLACEMENT CELL KIRORI MAL COLLEGE, DELHI	10.Aug.2021 - 10.Jun.2023	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PLACEMENT CELL Kirori Mal College, University of Delhi, Delhi	01.Jul.2024 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PHYSICS Kirori Mal College, University of Delhi, Delhi	01.Jul.2024 - 30.Jun.2025	
CAREER PROFILE	PROFESSOR	PHYSICS Kirori Mal College, University of Delhi, Delhi	07.Oct.2022 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PLACEMENT CELL Kirori Mal College, University of Delhi, Delhi	15.May.2024 - 15.May.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PHYSICS Kirori Mal College, University of Delhi, Delhi	15.May.2024 - 15.May.2025	

#### 4. Other Profiles

##### Other Profile Name/ Description

##### UG/ PG RESEARCH PROJECTS/ INTERNSHIPS

**Mr. Saurav Vedprakash Mishra** of M.Sc-II, K. J. Somaiya College of Science and Commerce Autonomous (Affiliated to Mumbai University) has successfully completed his Internship under me as a part of evaluation as per the rules and guidelines in semester IV in the academic year 2020-21.

The Title of the project is "**Revisiting free energy computation of QGP droplet under a statistical model**".

#### 5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
2021	Ph. D.	Dynamics of Heavy-ion Collisions in Thermal Model Approach	Dr. Abdul Hamid Nanda	Awarded

#### 6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
2012	Study on Quark Gluon Plasma (QGP) and Neutrino Physics	University Of Delhi, Delhi	One Year	Rs. 1000000	31.Jan.2012

2013	Study on Quark Gluon Plasma (QGP) and Neutrino Physics(Extension)	University Of Delhi, Delhi	One Year	600000	26.Nov.2013
2024	Computation in the context of Quark-Gluon Plasma (QGP) and Neutrino Physics	Kirori Mal College, University of Delhi, Delhi	One Year	Rs. 12000	17.May.2024
2025	Kmc_Res_Proj/2024/9C: Comptation in the context of Quark-Gluon Plasma (QGP) and Neutrino Physics	Kirori Mal College, University of Delhi, Delhi	One Year	12000	17.May.2024

## 7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month-Year)
JOURNAL PAPER (International)	Simple statistical model for analysis of quark-gluon plasma droplet (fireball) formation	Physical Review C	Agam K. Jha (Joint Author)	10.1103/PhysRevC.70.027903	August 2004
JOURNAL PAPER (International)	The Interfacial Surface Tension of a Quark-Gluon-Plasma Fireball in a Hadronic Medium	Pramana-Journal of Physics	Agam K. Jha (Joint Author)		May 2007
JOURNAL PAPER (International)	Effect of the curvature on a statistical model of Quark-Gluon-Plasma fireball in the hadronic medium	Pramana-Journal of Physics	Agam K Jha (Joint Author)		January 2010
JOURNAL PAPER (International)	CPT violating neutrino oscillation under planck scale effects	International Journal of Theoretical Physics	A. Jha (Joint Author)	10.1007/s10773-011-0756-4	March 2011
JOURNAL PAPER (International)	Effect of finite chemical potential on QGP-Hadron phase transition in a statistical model of fireball formation	Indian J. Phys.	A. K. Jha, (Joint Author)		June 2011
JOURNAL PAPER (International)	Nucleation rate of Quark-gluon plasma droplet at finite quark chemical potential	Pramana-Journal of Physics	Agam K. Jha (Joint Author)	10.1007/s12043-012-0265-x	May 2012

JOURNAL PAPER (International)	Restudy of Surface tension of QGP with one-loop correction in the mean-field potential	International Journal of Modern Physics A	A. K. Jha (Joint Author)	10.1142/S0217751X14500973	July 2014
JOURNAL PAPER (International)	Modified surface tension of a QGP droplet under one loop correction in Peshier potential	Proceedings of the Indian National Science Academy	Agam K. Jha (Corresponding Author)	10.16943/ptinsa/2015/v81i1/48066	February 2015
JOURNAL PAPER (International)	Quantum gravity Effects on Oscillating Parameters in a Four Flavor Framework	International Journal of Theoretical Physics	A. K. Jha (Joint Author)	10.1007/s10773-021-04811-2	May 2021
JOURNAL PAPER (International)	The study of angular momentum on the fusion of Si +Si, using SEDF in semiclassical extended Thomas-Fermi approach	Nuclear Physics A	Agam Kumar Jha (Joint Author)	10.1016/j.nuclphysa.2023.122672	July 2023
JOURNAL PAPER (International)	Dynamics of phase transition in Quark-Gluon droplet formation under magnetic field	International Journal of Modern Physics A	Agam K. Jha & Aviral Srivastava (First Author)	10.1142/S0217751X25501088	July 2025
CONFERENCE PAPER/ PROCEEDINGS (International)	Phenomenological Study of QGP-fireball Thermodynamics	Proceedings of International DAE symposium on Nuclear Physics	Agam K. jha (Corresponding Author)	www.symnpn.org/proceedings	December 2013
CONFERENCE PAPER/ PROCEEDINGS (National)	Velocity of sound in a Quark-Gluon Plasma with one loop correction in mean field potential	Proceedings of the DAE Symp. On Nucl. Phys	A. K. Jha (Joint Author)	www.symnpn.org/proceedings	December 2014

CONFERENCE PAPER/ PROCEEDINGS (National)	QGP-Hadron phase structure in a statistical model using Cornell, Richardson and Peshier potentials	Proceedings of DAE symposium on Nuclear Physics	Agam. K. Jha (Corresponding Author)	NAQ	December 2015
CONFERENCE PAPER/ PROCEEDINGS (National)	QGP-Hadron phase structure in a statistical model using Cornell, Richardson and Peshier potentials	Proceedings of DAE symposium on Nuclear Physics	Agam. K. Jha (Corresponding Author)	NAQ	December 2015
CONFERENCE PAPER/ PROCEEDINGS (International)	Quark-Gluon Plasma in Magnetic Fields	IEEE	Agam Kumar Jha (First Author)	<a href="https://doi.org/10.1109/ICSPCRE62303.2024.10674993">https://doi.org/10.1109/ICSPCRE62303.2024.10674993</a>	November 2024

## 8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
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## 9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From-To
2022	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	PROFESSOR	University	Workshop on Mathematical Physics I & II (NEP)	03.Nov.2022 - 02.Nov.2022
2024	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	MEMBER	National	NEP 2020 Orientation and Sensitization Programme under MM-TTP	20.May.2024 - 30.May.2024
2024	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	PROFESSOR	College	Seminar on Quark-Gluon Plasma	23.Oct.2024 - 23.Oct.2024
2025	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	PROFESSOR	University	Mathematical Physics NEP syllabus for VII & VIII Sem. as Co-ordinator	15.May.2025 - 15.Jun.2025

**Prof. AGAM KUMAR JHA**