



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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



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## 1. Personal Profile

Title: **Dr.** First Name: **AJAY** Last Name: **KUMAR**

Designation: **ASSISTANT PROFESSOR** Mobile No. **9009302925**

Phone No. (Office) **011-71219084** Phone No. (Residence): -----

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



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

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

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

Google Scholar Link: -----

Address: -----

## 2. Educational Qualifications

Degree/ Certification	Institution	Year
Ph.D. (Physics)	Indian Institute of Technology Indore, Madhya Pradesh	2016
M.Sc. (Physics)	Ch. Charan Singh University Meerut, Uttar Pradesh	2007
B.Sc. (Physics, Chemistry, Mathematics)	Ch. Charan Singh University Meerut, Uttar Pradesh	2004

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS KIRORI MAL COLLEGE, DELHI	19.Oct.2022 - Till date	
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS BHASKARACHARYA COLLEGE OF APPLIED SCIENCES, DELHI	27.Jan.2022 - 18.Oct.2022	
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS MAITREYI COLLEGE FOR WOMEN, DELHI	04.Dec.2020 - 19.Jan.2022	

CAREER PROFILE	POST DOCTORATE	PHYSICS BANARAS HINDU UNIVERSITY, UTTAR PRADESH	04.Dec.2017 - 03.Dec.2020	Dr. D. S. Kothari Postdoctoral Research Fellow, Department of Physics, Institute of Science, BHU
CAREER PROFILE	ASSISTANT PROFESSOR	PHYSICS BHASKARACHARYA COLLEGE OF APPLIED SCIENCES, DELHI	19.Jan.2017 - 03.Dec.2017	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	FEE CONCESSION COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jun.2023 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	GYM COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jun.2023 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	KARTAVYA- THE CIVIL SERVICE SOCIETY KIRORI MAL COLLEGE, DELHI	01.Jun.2023 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS Kirori Mal College	30.Jan.2024 - Till date	

#### 4. Other Profiles

##### Other Profile Name/ Description

##### AREAS OF INTEREST/ SPECIALIZATION

Experimental High Energy Physics

Detector Physics

##### SUBJECTS TAUGHT

Mechanics

Electricity and Magnetism

Digital Systems and Applications

Numerical Analysis (SEC)

Nuclear and Particle Physics

Mathematical Physics - I

Digital Empowerment (VAC)

#### 5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
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#### 6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
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## 7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month-Year)
JOURNAL PAPER (International)	Technical design report for the PANDA Barrel DIRC detector	Journal of Physics G: Nuclear and Particle Physics/ IOP Science	B. Singh, A. Kumar, A.Roy et al. (Joint Author)	10.1088/1361-6471/aade3d	February 2019
JOURNAL PAPER (International)	Feasibility study for the measurement of $\pi^+ N$ transition distribution amplitudes at PANDA in $p\bar{p} \rightarrow J/\psi \pi^0$	Physical Review D/American Physical Society	B. Singh, A. Kumar, A.Roy et al. (Joint Author)	<a href="https://doi.org/10.1103/PhysRevD.95.032003">https://doi.org/10.1103/PhysRevD.95.032003</a>	February 2017
JOURNAL PAPER (International)	Feasibility studies of time-like proton electromagnetic form factors at PANDA at FAIR	European Physical Journal A/Springer	B. Singh, A. Kumar, A. Roy et al. (Joint Author)	10.1140/epja/i2016-16325-5	November 2016
JOURNAL PAPER (International)	Study of doubly strange systems using stored antiprotons	Nuclear Physics A/Elsevier	B. Singh, A. Kumar, A.Roy et al. (Joint Author)	<a href="https://doi.org/10.1016/j.nuclphysa.2016.05.014">https://doi.org/10.1016/j.nuclphysa.2016.05.014</a>	October 2016
JOURNAL PAPER (International)	Acceptance Studies of an Additional Lambda Disk Detector for the PANDA Experiment	Nuclear and Particle Physics Proceedings/Elsevier	Ajay Kumar, Ankhi Roy (First Author)	10.1016/j.nuclphysbps.2016.02.012	March 2016

JOURNAL PAPER (International)	Experimental access to Transition Distribution Amplitudes with the PANDA experiment at FAIR	European Physical Journal A/Springer	B. P. Singh, A. Kumar, A. Roy, R. Sahoo et al. (Joint Author)	10.1140/epja/i2015-15107-y	August 2015
CONFERENCE PAPER/ PROCEEDINGS (International)	Simulation Studies of the Lambda Disks Detector for the PANDA Experiment	Springer Proceedings in Physics/Springer	Ajay Kumar, Ankhi Roy (First Author)	<a href="https://doi.org/10.1007/978-3-319-73171-1_146">https://doi.org/10.1007/978-3-319-73171-1_146</a>	December 2018
CONFERENCE PAPER/ PROCEEDINGS (International)	Study of Au+Au Collisions in CBM Energy Regime using HYDJET++	Proceedings of the DAE Symp. on Nucl. Phys.	Ajay Kumar, Arpit Singh, B.K. Singh (First Author)	<a href="http://www.sympnp.org/proceedings">www.sympnp.org/proceedings</a>	December 2018
CONFERENCE PAPER/ PROCEEDINGS (National)	Conceptual Design of the Lambda Disks Detector for the PANDA Experiment	Proceedings of the DAE-BRNS Symp. on Nucl. Phys.	Ajay Kumar, Ankhi Roy (First Author)	<a href="http://www.sympnp.org/proceedings">www.sympnp.org/proceedings</a>	December 2016
CONFERENCE PAPER/ PROCEEDINGS (International)	Development of the Lambda Disk Detector for the PANDA Experiment	Proceedings of the DAE Symp. on Nucl. Phys.	Ajay Kumar, Ankhi Roy (First Author)	<a href="http://www.sympnp.org/proceedings">www.sympnp.org/proceedings</a>	December 2013
CONFERENCE PAPER/ PROCEEDINGS (National)	Simulations to Measure Hyperons using Lambda Disk	Proceedings of the DAE Symp. on Nucl. Phys.	Ajay Kumar (Sole Author)	<a href="http://www.sympnp.org/proceedings">www.sympnp.org/proceedings</a>	December 2012

## 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
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2022	FACULTY INDUCTION PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	4-Week Faculty Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"	21.Nov.2022 - 20.Dec.2022
2022	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	15 days Online National Refresher Course "Python: Essentials, Programming and Analytics & Big Data Analytics"	27.Oct.2022 - 11.Nov.2022
2023	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ASSISTANT PROFESSOR	National	TEACHERS SUMMIT NEP 2020: Role of a Teacher	04.Nov.2023 - 04.Nov.2023
2024	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ASSISTANT PROFESSOR	International	International School and Workshop on Probing Hadron Structure at the Electron- Ion Collider	28.Jan.2024 - 09.Feb.2024
2024	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ASSISTANT PROFESSOR	International	Recent Advances in Functional Materials (RAFM-2024)	14.Mar.2024 - 16.Mar.2024
2025	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	NEP:Orientation & Sensitization Programme	14.Feb.2025 - 22.Feb.2025

**Dr. AJAY KUMAR**