




Faculty Details proforma for DU Web-site

Title	Dr.	First Name	Ashok	Last Name	Kumar	Photograph
Designation		Assistant Professor				
Address		Department of Physics & Astrophysics, University of Delhi, Delhi – 110007.				
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Email		ashok.kumar@cern.ch				
Educational Qualifications						
Degree		Institution			Year	
Ph.D. High Energy Physics		Panjab University, Chandigarh			2007	
PG M.Sc. (Honours) Physics		Panjab University, Chandigarh			2001	
UG B.Sc.		Himachal Pradesh University, Shimla			1999	
Career Profile						
2008- till date: Assistant Professor, Department of Physics & Astrophysics, University of Delhi, Delhi.						
2006- 2008: Assistant Professor, Department of Physics, Guru Nanak Dev University, Amritsar.						
2001- 2006: CMS Project Fellow, Panjab University, Chandigarh.						
Administrative Assignments						

Areas of Interest / Specialization
High Energy Physics, Higgs Physics, Detectors and Instrumentation CMS experiment at Large Hadron Collider
Subjects Taught
Nuclear Physics, Particle Physics, Classical Mechanics, Quantum Mechanics, Radiation Technology & its applications.
Research Guidance
PhD Registered Students: 03
Publications Profile
<ol style="list-style-type: none"> 1) Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC CMS Collaboration, Phys. Lett. B 716 (2012) 30-61 2) Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC, CMS Collaboration, Eur. Phys. J. C 73 (2013) 2469 3) Search for the standard model Higgs boson in the H to ZZ to 2l 2nu channel in pp collisions at sqrt(s) = 7 TeV, CMS Collaboration, JHEP 03 (2012) 040. 4) Search for the standard model Higgs Boson in the decay channel $H \rightarrow ZZ \rightarrow 4\ell$ at CMS, CMS Collaboration, CMS PAS HIG-11-004, HIG-11-015 (2011) 5) Abdulin, S, et al., 2009. The CMS Barrel Calorimeter Response to Particle Beams from 2 to 350 GeV/c. CERN-CMS NOTE-2008/034, Eur. Phys. J. C60: 359-373. 6) Abdulin, S, et al., 2008. Design, Performance and Calibration of the CMS Hadron-Outer Calorimeter. CMS-NOTE-2008-020. Eur. Phys. J. C57: 653-663. 7) Abdullin, S, et al., 2008. Design, Performance and Calibration of CMS Hadron-Barrel Calorimeter Wedges. CERN-CMS-NOTE-2006-138, FERMILAB-PUB-08-246-CMS. Eur. Phys. J. C55: 159-171. 8) Bayatian, G, et al., 2008. Design, performance and calibration of the CMS forward calorimeter wedges. CERN-CMS-NOTE-2006-044. Eur. Phys. J. C53: 139-166. 9) Study of RPC bakelite electrodes and detector performance for INO-ICAL, JINST 2014 9 C10042. 10) Characterisation of glass electrodes and RPC detectors for INO-ICAL experiment, JINST 2014 9 C10039. 11) Characterisation of 3 mm Glass Electrodes and Development of RPC Detectors for INO-ICAL Experiment, 10.1016/j.nima.2014.11.035.
Conference Organization/ Presentations (in the last three years)
<ol style="list-style-type: none"> 1. Dark Matter searches at CMS, <i>Blois2016: 28th Rencontres de Blois - Particle Physics and Cosmology, 29 May - 3 Jun 2016, Blois (France)</i>. 2. Performance of Glass Resistive Plate Chambers using HARDROC multichannel Readout, <i>International Workshop on RPCs (RPC'16), February - 2016, Ghent (Belgium)</i>,
Research Projects (Major Grants/Research Collaboration)

Member, CMS Collaboration
Member, INO Collaboration
Awards and Distinctions
Association With Professional Bodies
Other Activities