



Department of Physics and Astrophysics  
University of Delhi

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<b>Designation</b>	Assistant Professor		
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<b>Education Qualification</b>			
<b>Degree</b>	<b>Institute</b>	<b>Year</b>	
Ph.D	Himachal Pradesh University	2008	
P.G.	Himachal Pradesh University	2002	
U.G.	Himachal Pradesh University	2000	
<b>Career Profile</b>			
1. Junior Research Fellow	Himachal Pradesh University	2002-2004	
2. Senior Research Fellow	Himachal Pradesh University	2004-2008	
3. Assistant Professor	Thapar University	2008-2009	
4. Assistant Professor	Aligarh Muslim University	2009-2010	
5. Assistant Professor	University of Delhi	2010 -	
<b>Administrative assignments</b>			
1. Ph.D. Admission Committee 2. M.Sc. Admission Committee 3. Time Table Committee			
<b>Areas of interest</b>			
1. High energy physics 2. Cosmology 3. Astrophysics			
<b>Subjects Taught</b>			
1. Classical Mechanics 2. Electromagnetic Theory 3. Radiation Theory 4. Advanced Numerical Techniques 5. Computer Lab			
<b>Research Guidance</b>			
I am currently supervising one Ph.D. student.			

<b>Publications (in the last three years)</b>
1. Kanwaljeet S. Channey and <b>Sanjeev Kumar</b> . <b>2017</b> . Phenomenological implications of two simple modifications to Tri-Bimaximal mixing. Mod.Phys.Lett. A32 (2017) no.26, 1750137.
2. <b>Sanjeev Kumar</b> and Radha Raman Gautam. <b>2017</b> . Implications of texture zeros for a variant of tribimaximal mixing. Phys.Rev. D96 (2017) no.1, 015020.
3. Daljeet Kaur, Zubair Ahmad Dar, <b>Sanjeev Kumar</b> , Md. Naimuddin. <b>2017</b> . Search for the differences in atmospheric neutrino and antineutrino oscillation parameters at the INO-ICAL experiment. Physical Review D95: 093005. arXiv:1607.08328.
4. Radha Raman Gautam and <b>Sanjeev Kumar</b> . <b>2016</b> . Zeros in the magic neutrino mass matrix. Physical Review D94: 036004. arXiv:1607.08328.
5. Radha Raman Gautam and <b>Sanjeev Kumar</b> . <b>2016</b> . Zeros in the magic neutrino mass matrix. Physical Review D94: 036004. arXiv:1607.08328.
6. Shakeel Ahmed et. al. [ICAL Collaboration]. <b>2015</b> . Physics Potential of the ICAL detector at the India-based Neutrino Observatory (INO). arXiv:1505.07380.
7. Daljeet Kaur, Md Naimuddin and <b>Sanjeev Kumar</b> . <b>2015</b> . The sensitivity of the ICAL detector at India-based Neutrino Observatory to neutrino oscillation parameters. European Physics Journal C75 4: 156
<b>Conference Organization/ Presentations (in the last three years)</b>
1. Kanwaljeet S. Channey and <b>Sanjeev Kumar</b> . <b>2018</b> . Trimaximal TM1 and TM2 Mixings as Perturbation of Tri-Bimaximal Mixing. 22nd DAE-BRNS High Energy Physics Symposium. Springer Proc. Phys. 203 (2018) 471-474.
2. Daljeet Kaur, Zubair Ahmad Dar, <b>Sanjeev Kumar</b> ., and Md. Naimuddin. <b>2018</b> . The INO-ICAL Sensitivity for the Separate Measurement of Neutrinos/Anti-neutrinos Parameters . 22nd DAE-BRNS High Energy Physics Symposium. Springer Proc. Phys. 203 (2018) 423-426.
3. Radha Raman Gautam and <b>Sanjeev Kumar</b> . <b>2018</b> . Two Zeros in the Magic Neutrino Mass Matrix. 22nd DAE-BRNS High Energy Physics Symposium. Springer Proc. Phys. 203 (2018) 231-233.
4. <b>Sanjeev Kumar</b> . <b>2015</b> . Status of India-based neutrino observatory . NuFact15.
<b>Research projects</b>
1. DST Fast Track project
2. R&D Efforts by University Groups for INO - ICAL project, DST, India
<b>Awards and distinction</b>
<b>Association with professional media</b>
<b>Other activities</b>