

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय
महात्मा हंसराज मार्ग,
मलकागंज, दिल्ली- 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI
Mahatma Hansraj Marg
Malkaganj, Delhi – 110007
Tel.: 011-27667458, 27667747
E-mail: principal_hrc@yahoo.com
Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

(2025-2026)

Name of the Event	: Unmasking Neutrinos
Society Name	: Lumen
Date of the Event	: 6 th November 2025
Duration	: 12:40 PM to 2:40 PM
Venue of the Event	: PEL-5/B-Block/Hansraj College
Convener	: Dr. Rajendra Prasad Tiwari, Dr. Jnaneswari Gellanki
Coordinator	: Dr. Aman Phogat
Core	: Shivam Singh, Manas , Srijal , Karan, Vedika, Sneha

UNMASKING NEUTRINOS

**LUMEN - THE PHYSICS & ELECTRONICS SOCIETY
HANSRAJ COLLEGE**
presents
SEMINAR
ON
**UNMASKING
NEUTRINOS**
Mr. Ishwar Singh
Research Scholar
Department of Physics and Astrophysics,
University of Delhi
Exploring Oscillations with the
NOvA Experiment at Fermilab

**6th November
2025** **12:40 PM
Onwards** **PEL-5, B-Block
Hansraj College**

FOR QUERIES, CONTACT:
SHIVAM SINGH - 9525998362
SRIJAL KUMAR - 9234888384

Dr. Rajender Prasad Tiwari
Convener, Lumen
Dr. Aman Phogat
Coordinator
Mr. Shivam Singh
President

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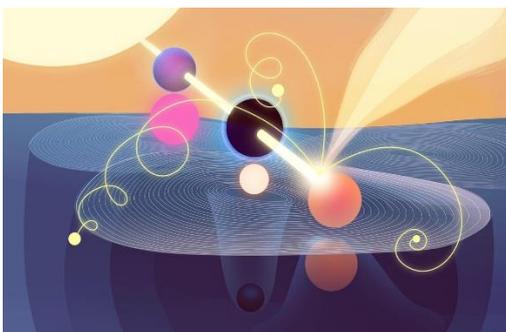


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On the 6th of November, Lumen - The Physics and Electronics Society of Hansraj College organised the event 'Unmasking Neutrinos'. Curious Minds gathered at the respective venue, to fuel their hunger for knowledge, under the guidance of Mr Ishwar Singh.



Neutrinos are elusive, nearly massless, neutral elementary particles that stream through the universe, interacting only via gravity and the weak force, allowing them to pass through most matter unimpeded, earning them the nickname "ghost particles"

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Mr. Ishwar Singh, an accomplished Research Scholar, who also happens to be an Alumni of Hansraj College, shared his precious time and vast knowledge and unmasked the concept of Neutrinos in the simplest way possible. He is currently researching on the nature of Neutrinos and how to detect them.

He made it very easy for the young pupils with no or minimum knowledge of Quantum Physics, to understand the whole concept of Neutrinos and why are they so important to understand the hidden questions throughout the Cosmos and how to answer them.



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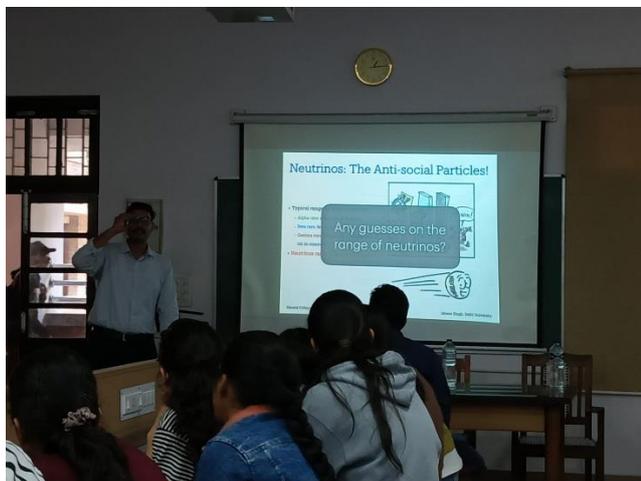
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To understand Neutrinos more elegantly, Mr Ishwar Singh compared Neutrinos with Photons.

Photons are quanta of electromagnetic radiation and interact via the electromagnetic force, which allows them to be absorbed, reflected, or scattered by charged particles, even in sparse matter like gases. In contrast, neutrinos interact only through the weak nuclear force and gravity, making them nearly transparent to matter and enabling them to pass through vast amounts of material with minimal interaction.



The Sun produces vast numbers of Neutrinos through fusion, with about 65 billion hitting each square centimeter of Earth per second. A Neutrino is an electrically neutral particle with its rest mass almost zero, that only interacts via weak interaction and Gravity.

In Conclusion, Neutrinos are one of the most essential concepts in the Universe that help us understand the unanswered and otherwise invisible questions about Cosmos and we thank Mr. Ishwar Singh enlightening us with this resourceful insight and we wish him luck in his future endeavours.

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List of Students who attended this Event :

S. No.	Name of the Student	Course
1.	Deepak Verma	Electronics
2.	Abhiraj Gupta	Electronics
3.	Tanishq Paliwal	Physics
4.	Prince	Physics
5.	Uday	Physics
6.	Vansh Sharma	Physics
7.	Bhavishya Varshney	Physics
8.	Yash	Physics
9.	Shashikant Mishra	Physics
10.	Dhruv Singh	Physics
11.	Shweta	Physics
12.	Aaryan	Electronics
13.	Ayush Soni	Electronics
14.	Shobhit	Electronics
15.	Yashika	Electronics
16.	Akshat	Electronics
17.	Devansh	Electronics
18.	Tamanna	Electronics
19.	Roushan	Electronics
20.	Ayush Kushwaha	Electronics
21.	Aman Yadav	Electronics
22.	Shashikant Chauhan	Electronics
23.	Sakshi Dhurvey	Electronics
24.	Priyanshu	Electronics
25.	Aryan Rana	Electronics
26.	Sumit	Electronics
27.	Srijal	Electronics
28.	Shivam	Electronics
29.	Rohit Yadav	Physics
30.	Tikeshwar Mandavi	Physics
31.	Aryash Singh	Physics
32.	Saksham Anand	Physics
33.	Harsh Vardhan Singh	Physics
34.	Abhay Kumar	Physics

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35.	Lavish Kumar	Physics
36.	Piyush Sharma	Physics
37.	Sagar	Physics
38.	Manvendra Singh Parmar	Physics
39.	Laishram Singh	Physics
40.	Shashwat	Physics
41.	Shikha	Physics
42.	Nikita Tyagi	Physics
43.	Sakshi	Physics
44.	Hariom	Physics
45.	Md. Humayun	Physics
46.	Ashish	Physics
47.	Akhilesh Mishra	Physics
48.	Satyam Yadav	Physics
49.	Tushar Sharma	Physics
50.	Priya Kumari	Physics
51.	Tapan	Physics
52.	Sanidhya	Physics
53.	Karan Singh	Physics
54.	Kanika	Physics
55.	Durgeshwari	Physics
56.	Akshra	Physics
57.	Priya Yadav	Physics
58.	Priyanshi	Physics
59.	Vedika Puri	Physics
60.	Yashasvi Jain	Physics
61.	Sourabh	Electronics
62.	Arun Yadav	Electronics
63.	Shreyash Pandey	Electronics
64.	Satyam Monga	Electronics
65.	Sandesh Verma	Electronics
66.	Rajesh Roy	Electronics
67.	Abeer Agarwal	Electronics
68.	Sumit Kumar	Electronics
69.	Akshay Kumar	Electronics
70.	Naman Singh	Electronics
71.	Maheshwar Sibi	Electronics
72.	Anubhav Singh	Electronics

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73.	Anshal	Electronics
74.	Tranjing	Electronics
75.	Priyanshu	Electronics
76.	Ojas Joshi	Electronics
77.	Sanav Arora	Electronics
78.	Urvashi	Electronics
79.	Anindita	Electronics
80.	Divya	Electronics
81.	Kartik	Electronics
82.	Raj	Electronics
83.	Kaushik	Electronics
84.	Suhani	Electronics
85.	Ashtosh	Electronics
86.	Varsh	Electronics