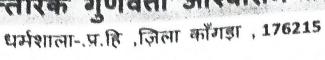
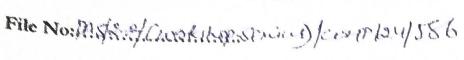


हिमाचल प्रदेश केतीय विश्वविद्यालय

(NAAC-Accredited : A) with CGPA of 3.42)

आन्तरिक गुणवता आश्वासन प्रकोष्ठ





Eve	nt Report
Name	Unveiling the Hidden Universe: Dark Matter,
Name of the Event	1 St Amin CO Offil Cities 1.
and type	1 2 Caminar
Objective of the event	Online Seminar Online Seminar To understand the landscape of matter-antimatter asymmetry and dark matter with ahistorical asymmetry and dark matter with ahistorical light on various background shedding light on various experiments that provide solid evidence for the experiments that provide solid evidence for the experiments that provide solid evidence for the experiments to understand why the standard
	experiments that punderstand why the standard same Further, to understand why the standard both
	model of particle physics could not exp matter-antimatter asymmetry and dark matter matter-antimatter asymmetry and dark matter 30 January2025, 06:00 PM – 07:00 PM, Online
Date, Time and Venue	Comittor
Convener /Organising Secretary	Dr. Surender Verma NPRG@CUHP, Department of Physics and vicel Science
Organising Unit	NPRG@CUHP, Departer Astronomical Science
Visiting -	37 participants. Post-
Participants	Dr. Satyabrata Manapathiyersity,
Outcome of the event	Doctoral renow, researcher in thefield guilden
	Korea, an active researcher in thefield gave Korea, an active researcher in thefield gave Webinar talk titled "Unveiling the Hidden Webinar talk titled "Unveiling and Other Webinar Matter, Neutrinos, and Other Dark Matter, Neutrinos, and Other
	for the master's degree and research of the master presented a beyond-standard model of the master's degree and research of th
	students. The online participation was around students. The online participation was around students. The speaker presented a beyond-standard model. The speaker presented a beyond-standard model that can simultaneously explain dark
	The speaker presented a beyond-standard dark scenario that can simultaneously explain dark scenario that can simultaneously explain dark asymmetry. At the
	scenario that can simultaneously expland scenario that can simultaneously expland the scenario that can be scenario to the scenario to the scenario that can be scenario to the scenario that can be scenario to the s
	matter and matter-antimatter asymmetry. At the matter and matter-antimatter asymmetry as a second control of the talk, the audience actively participated end of the talk.
	and of the tank, and session will
	in the question wine efficiently.
	in the question-and-answer section in the question in the q
:C anyone	speaker answered the quenes criterians Speaker and Conference None, Confine International Conference Speaker and Criterians Speaker and Crite
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herwise CUHP	
otos (atleast one geo-tag)	o g Same
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Detail report of the Seminar

The NPRG@CUHP, Department of Physics and Astronomical Science (DPAS) under the guidance of head of department Prof. Rajesh Kumar, the cooperation of all faculty members and research scholars organized an online webinar shedding light on one of most fascinating parts of high energy physics i.e. neutrino physics. The speaker, **Dr. Satyabrata Mahapatra** (Post-Doctoral Fellow) from Sungkyunkwan University, Korea, was one of the active researchers in the concerned field. The speaker was reached out and communicated by Dr. Surender Verma to give the webinar talk titled "Unveiling the Hidden Universe: Dark Matter, Neutrinos, and Other Mysteries". It was organized on 30th January 2025 from 06:00 PM -07:00 PM (IST) with a gathering of participants online (speaker and some participants). The webinar was primarily organized for the master's degree and research degree students. The online participation was around 37.

The speaker was introduced to the audience by Dr. Surender Verma, Associate Professor at DPAS. Dr. Verma briefly introduced the importance of studying matter-antimatter asymmetry and explained the concept of dark matter, which is invisible matter. After the introduction, the speaker discussed the landscape of matter-antimatter asymmetry and dark matter with an interesting historical background and shed light on various experiments that provide solid evidence for the same. Further, he discussed why the resulting in various beyond-standard model scenarios to account for both anomalies. After this, he simultaneously explain dark matter and matter-antimatter asymmetry. At the end of the talk, the audience actively participated in the question-and-answer session while the speaker answered the queries efficiently. highlighted the essence of webinar and its relevance for the master and early research degree students.

Dr. Surender Verma

Convener

विभागाध्यक्ष, भौतिकी एवं खगोल विना विना Head, Department of Profes & Astronomical Science हिमार्च प्रदेश फंडीय कि कि Central University of Himachar Fridesh Director शाहपुर परिसर, शाहपुर/Shahpur Parisar, Shahpur शाहपुर कांगडा (हि.प्र.)/Shahpur, Kangra (WRth Stamp)



DEPARTMENT OF PHYSICS AND ASTRONOMICAL SCIENCE CENTRAL UNIVERSITY OF HIMACHAL PRADESH AND

NPRG@CUHP ORGANIZING SEMINAR ON

UNVEILING THE HIDDEN UNIVERSE: DARK MATTER, NEUTRINOS, AND OTHER MYSTERIES

SPEAKER: SATYABRATA MAHAPATRA

POST-DOC FELLOW (SUNGKYUNKWAN UNIVERSITY, KOREA)

DATE: 30-01-2025

TIME: 06:00 PM

生活性特色的自由缺

Google Meet Link: https://meet.google.com/vzf-yxgw-gpy