

K.A.H.M UNITY WOMEN'S COLLEGE
PHYSICS CLUB & DEPARTMENT OF PHYSICS
AN INTRODUCTION TO THE WORKS OF PHYSICS NOBEL
LAUREATES OF 2023
‘Attosecond Pulses’

Aim, Objectives, and Scope of the programme:

The aim of the talk is to explore and elucidate the significant contributions and groundbreaking research that led to the awarding of the 2023 Nobel Prize in Physics. The discussion will provide a comprehensive understanding of the laureates' work, its scientific impact, and its potential applications in various fields.

Objectives:

1. Introduce the Laureates:

- Provide a brief background on the 2023 Nobel Prize winners in Physics, including their academic and professional journey.

2. Explain the Awarded Research:

- Describe the specific research or discovery that earned the laureates the Nobel Prize.
- Highlight the innovative aspects and methodologies used in their research.

3. Discuss the Scientific Impact:

- Analyze how the laureates' work advances current knowledge in physics.
- Illustrate the implications of their findings for future research and technological developments.

4. Explore Practical Applications:

- Identify potential or existing applications of the research in various industries (e.g., technology, healthcare, energy).

- Discuss any interdisciplinary relevance and the potential to solve real-world problems.

Scope:

Comprehensive Coverage:

- The talk will cover the full spectrum of the laureates' work, from fundamental theories to experimental practices and their implications.

Educational Impact:

- Aim to inspire and educate attendees about the importance of scientific research and the continuous advancements in the field of physics.

By focusing on these elements, the talk will not only honor the achievements of the 2023 Physics Nobel Laureates but also foster a deeper appreciation for the ongoing contributions of physics to our understanding of the universe and the development of new technologies.

Name of the Co ordinator :	Mr Sabeer V Assistant Professor Department of Physics
Date of programme	22/02/2024
Mode of the programme	Offline
Total no: of participants	35
Organizing body	Physics Club & Department of Physics
Organizing Committee members	1. Mr.Muhammed Abdul Hakkeem C,

Head,Dept.of Physics

2 . Mr.Sabeer V, Coordinator,Physics Club

3. Mrs Fidha Gafoor, Student coordinator.

Students Involvement in Organizing the programme:

Students in the Second year Chemistry department actively involved in the programme. They designed a beautiful brochure for the programme. Moreover they arranged the Physics lab for the talk. Geotagged Photos of the programme was taken by students. Registration of participants for the programme, attendance of participants ,etc were recorded by students. Vote of thanks to resource person was delivered by Ms. Fidha Gafoor, the student coordinator for the programme.

REPORT







Report:

The talk began with a brief introduction to the laureates, highlighting their academic and professional backgrounds. The speaker provided insights into their career journeys, significant milestones, and prior contributions to the field of physics. The speaker delved into the specifics of the research that led to the Nobel Prize. The laureates were recognized for their pioneering work in experimental methods that generate attosecond pulses of light for the study of electron dynamics in matter, which involved with light capture the shortest of moments. The innovative aspects of their work were highlighted, demonstrating how their methodologies and approaches differed from previous research in the field. The speaker discussed the broader implications of the laureates' findings. The talk emphasized how their research has advanced our understanding of attosecond pulses and opened new avenues for future studies. The significance of their work in contributing to the theoretical and experimental foundations of physics was underscored. By celebrating and disseminating the achievements of Nobel Laureates, we can inspire the next generation of scientists and contribute to the ongoing pursuit of knowledge and innovation.

Participants:

SI No:	Name of student	Programme/Subject	Signature
1	Adeeba ca	III Sem B.Sc Chemistry	
2	Nida Abdul Razak	III Sem B.Sc Chemistry	
3	Hiba chatholi	III Sem B.Sc Chemistry	
4	Amla kalangottil	III Sem B.Sc Chemistry	
5	Mubeena AM	III Sem B.Sc Chemistry	
6	Fathima Anooda CK	III Sem B.Sc Chemistry	
7	Numa nasrin vp	III Sem B.Sc Chemistry	
8	Hanna	III Sem B.Sc Chemistry	
9	RINSHA K	III Sem B.Sc Chemistry	
10	Fathima Jasni	III Sem B.Sc Chemistry	
11	Irfana nk	III Sem B.Sc Chemistry	
12	Baby shamla	III Sem B.Sc Chemistry	
13	HASNA NUSRY PN	III Sem B.Sc Chemistry	
14	SAFNA MUBASHIRA P	III Sem B.Sc Chemistry	
15	Dilsha K	III Sem B.Sc Chemistry	
16	Fahmida Farhath. P	III Sem B.Sc Chemistry	
17	Sahla k	III Sem B.Sc Chemistry	
18	Fathima hiba. B	III Sem B.Sc Chemistry	
19	Shakira jumana	III Sem B.Sc Chemistry	
20	Muhsina c	III Sem B.Sc Chemistry	
21	Safnamozhikkal	III Sem B.Sc Chemistry	
22	Kadeeja Sulfana.K	III Sem B.Sc Chemistry	
23	Fathima Liyana KT	III Sem B.Sc Chemistry	
24	Fathima Fidha KP	III Sem B.Sc Chemistry	
25	RAISHADA M	III Sem B.Sc Chemistry	
26	Afna Rimzi KT	III Sem B.Sc Chemistry	
27	Fidha M	III Sem B.Sc Chemistry	
28	Hanna Jasmin	III Sem B.Sc Chemistry	
29	Shahana sherin T	III Sem B.Sc Chemistry	
30	Fathima minha. C	III Sem B.Sc Chemistry	

31	FIDHA NASHMA TP	III Sem B.Sc Chemistry	
32	Fathima Mirshana TP	III Sem B.Sc Chemistry	

Feedback of the programme:

After completion of the programme feedback of students were collected through google form and analysed.

Name of participant	How satisfied were you with the talk	The talk was very much relevant and helpful	Did the talk meet your expectations?	Would you say the talk was interactive?	Did the talk help you with new learnings or knowledge?	Would you say the resource person were knowledgeable?	How satisfied were you with the Topic?	How satisfied were you with the Presentation Style?
ANSHIDA FARHA K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
ASHIKAMOL K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
ASNA NT	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
AYISHA MINNA M	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
FANSHA.K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
FARHA SALEEM C H	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
FATHIMA AJEESHA P	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
FATHIMA BINSHIDA T P	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied

FATHIMA DILSHA U	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
FATHIMA MIDHA K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
NASNA N	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
NIDHA JABIN CP	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
NIYA FATHIMA PM	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
NOURIN CK	Satisfied	Agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
NUEMA ANEES K	Very Satisfied	Agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
OMNIYAH	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
RANIYA AK	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
RISLA FATHIMA N	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
ROSHIN K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
SAHADIYA K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
SHAHADIYA T	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
SHAHAMAT HU SHAHANA N	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied

SHAHANA K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
SHIFLA NANAKKAL	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
THANSHEEH A. K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
SHARMINA THASNI P	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
SHILNA NIHALA E	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
APARNA AP	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
DILFA. K	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
FIDHA GAFOOR P	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
PARVATHY T	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
RINSHA	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Very satisfied	Very Satisfied
SHAJERIN CK	Very Satisfied	Strongly agree	Yes	Yes	Yes	Yes	Satisfied	Satisfied
SHAMILA ck								

Feedback analysis

Feedback of participants proved that the programme was very useful, effective and informative.

Outcome, Evaluation and Results of the Programme

The talk on the works of the 2023 Nobel Laureates in Physics provided an in-depth understanding of their groundbreaking contributions and the implications of their research. The talk could inspire students by highlighting the innovative and impactful work of the laureates. Complex scientific concepts were explained in an accessible manner, ensuring that students in undergraduate level could grasp the key points. The talk included interactive segments such as Q&A sessions, which allowed the audience to engage directly with the speaker. Visual aids, such as diagrams and videos, were utilized to illustrate the laureates' work, enhancing comprehension and retention. Attendees gained a clearer understanding of the 2023 Nobel Prize-winning research, including its background, development, and potential future impact. The talk highlighted the collaborative nature of scientific research, emphasizing the importance of interdisciplinary work. Overall, the talk on the works of the 2023 Nobel Laureates in Physics was a resounding success, achieving its goals of education, inspiration, and engagement. The positive response from the audience underscores the importance of such events in promoting scientific literacy and encouraging the next generation of physicists.

14. Signature of the organizing secretary