

PHYSICS CLUB
K.A.H.M UNITY WOMEN'S COLLEGE, MANJERI
ANNUAL REPORT 2023-24

Prepared by
Mr. Sabeer V
Coordinator, Physics Club 2023-24

Office bearers

Coordinator	: Mr.Sabeer V,Asst.Professor of Physics
President	: Fidha Gafoor, IVth Sem B.Sc Chemistry
Vice President	: Parvathy T, IVth Sem B.Sc Chemistry
Secretary	: Omniyah Ummer, IVth Sem B.Sc Chemistry
Joint Secretary	: Sharmina Thasni, IVth Sem B.Sc Chemistry
Treasurer	: Dilfa K, IVth Sem B.Sc Chemistry

Aims:

1. **Promote Interest in Physics:** Inspire and cultivate a passion for physics among students.
2. **Enhance Learning:** Provide opportunities for members to deepen their knowledge and understanding of physics beyond the classroom.
3. **Support Academic Growth:** Provide academic support and resources for students studying physics.

Objectives:

1. **Organize Events and Activities:** Plan and conduct events such as guest lectures, workshops, and demonstrations to enhance understanding of physics concepts.
2. **Conduct Experiments:** Arrange hands-on experiments and projects to allow members to explore physics principles in practice.
3. **Engage in Competitions:** Encourage participation in physics-related competitions, such as science fairs, quizzes, and Olympiads.
4. **Facilitate Discussions and Study Groups:** Create forums for members to discuss challenging concepts, share knowledge, and solve problems collaboratively.

ACTIVITIES

Activity 1: AN INTRODUCTION TO THE WORKS OF PHYSICS NOBEL LAUREATES OF 2023.

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 talk was aimed to inspire and educate attendees about the importance of scientific research and the continuous advancements in the field of physics.

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.

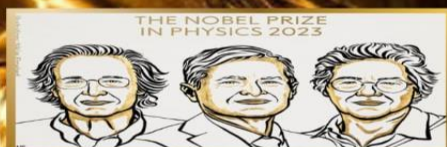


KAHM UNITY WOMEN'S COLLEGE MANJERI

**DEPARTMENT OF PHYSICS
& PHYSICS CLUB**

Conducts,

**IN HONOUR OF
THE PHYSICS NOBEL LAUREATES 2023
AN INTRODUCTION TO THEIR WORKS**



Resource Person:



**Omniyah Ummer
4th Sem B.Sc Chemistry**



22nd FEBRUARY 2024



Physics lab



10:30am

**Teacher coordinator: Sabeer V
Student coordinator: Fidha Gafoor**





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.

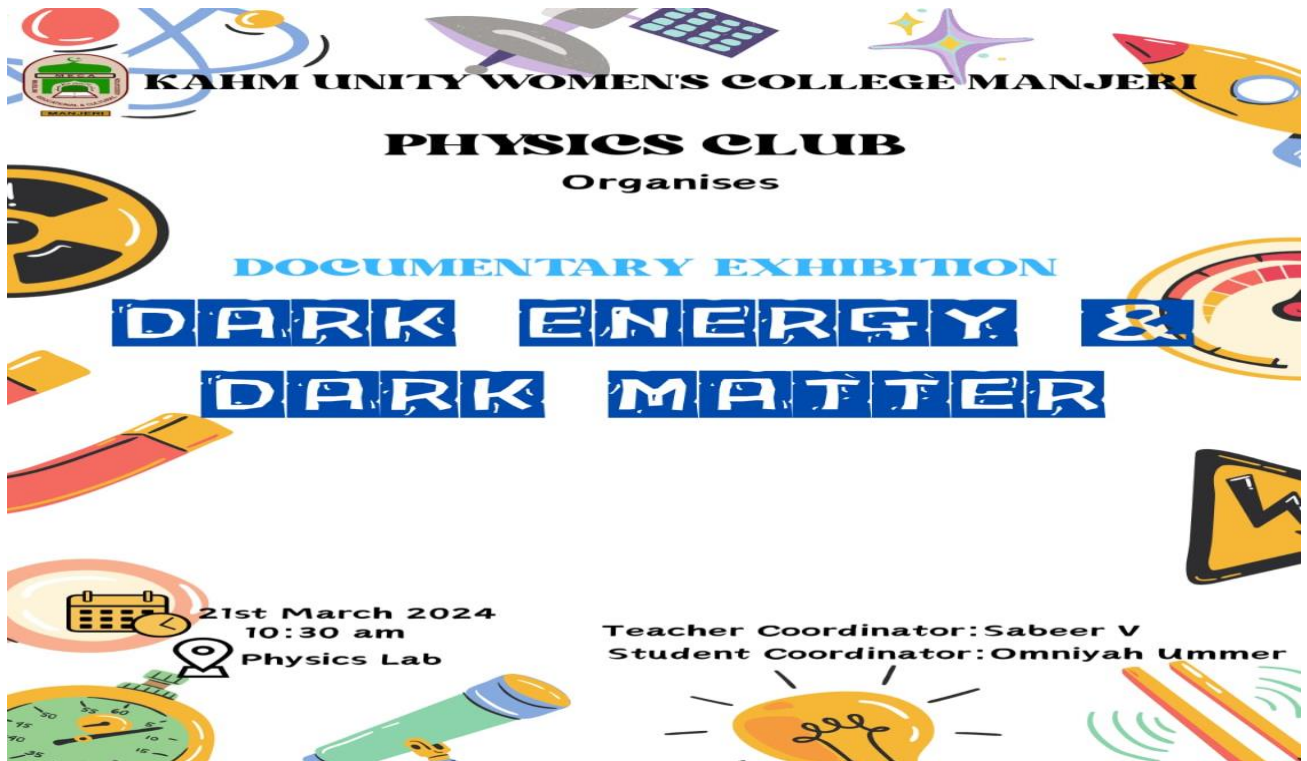
After completion of the programme feedback of students were collected through google form and analysed.

ACTIVITY 2: DOCUMENTARY EXHIBITION ON “DARK ENERGY AND DARK MATTER’

The aim of the documentary exhibition on "Dark Energy and Dark Matter" is to educate and engage students by providing a comprehensive and accessible understanding of these fundamental components of the universe.

Name of the Co ordinator :	Mr Sabeer V Assistant Professor Department of Physics
Date of programme	21/03/2024
Mode of the programme	Offline
Total no: of participants	37
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. Ms.Omniyah Ummer, Student coordinator & Physics club secretary
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The documentary exhibition on "Dark Energy and Dark Matter" was successfully conducted on 21st March 2024 at Physics lab. The exhibition aimed to educate the students on these fundamental aspects of the universe, providing insight into current research, historical context, and the latest technological advances in the field of cosmology. Feedback indicated a significant increase in understanding and interest in dark energy and dark matter. The exhibition traced the history of dark energy and dark matter research, highlighting key milestones and influential scientists. Overall, the exhibition successfully conveyed the importance and intrigue of dark energy and dark matter, making complex scientific concepts accessible and inspiring a new generation of cosmologists.