

## REPORT OF THE PROGRAMME CONDUCTED



Dept. of  
Sree Sankara College Kalady

Title of the activity                      National Workshop on High Energy Physics

Date and Time                              28/10/2018

Resource person

Nature of activity

Type of Activity                              ,

Linkage Activity

Convener

Number of participants                      0

Three day National Workshop on High Energy Physics was organised by the Department of Physics from 29 - 31 October, 2018 on the topic "Elementary particles and Gravitational Waves". The proposed workshop on High Energy Physics focussed on the foundation of particle physics and the recent advancements in the field of High Energy Physics. This workshop also had a session on detection of gravitational waves using LIGO. Students and Teachers from different colleges participated in this programme.

Report of the activity                      Venue : Seminar Hall, Sree Sankara College, Kalady.

### Resource Persons

- Dr. M. V. N. Murthy, Professor(Retd.), Institute of Mathematical Sciences, Chennai
- Dr. K. Indulekha, Professor, School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam

Outcome of the activity

### ORGANIZING COMMITTEE

- Adv. K. Anand, Managing Director (Patron)
- Sri. C. P. Jaisankar, Chief Operating Officer
- Sri. Shanthu Namboothiri N, Principal/DO (Chairman)
- Dr. Vinod. G., H.O.D (Vice – Chairman)
- Sri. Ben Jose
- Smt. Aritha Abraham
- Smt. Vrinda. S. Punnaikall
- Dr. Manju. T.
- Smt. Nimmi Narayanan (Convener)
- Smt. S. S. Priya
- Dr. Sumithra Sivadas Menon
- Ms. Amala Joseph

Venue: Seminar Hall  
Sree Sankara College, Kalady

Address for Communication  
Smt. Nimmi Narayanan  
Ph.No.9388415014  
email: nimmi.indhira@gmail.com

Registration Fee  
Students - Rs 200/-  
Research Scholars/Teachers - Rs 400/-

Last Date of Registration 24/10/2018


## NATIONAL WORKSHOP ON HIGH ENERGY PHYSICS

October 29-31, 2018


Organized by  
Department Of Physics  
Sree Sankara College, Kalady



### Resource Persons



Dr. M. V. N. Murthy,  
Professor(Retd.), Institute of  
Mathematical Sciences, Chennai



Dr. K. Indulekha,  
Professor, School of Pure and  
Applied Physics, Mahatma Gandhi  
University, Kottayam

### Scope and Objective of the Workshop

The proposed workshop on High Energy Physics will be focussing on the foundation of particle physics and the recent advancements in the field of High Energy Physics. This workshop will also have a session on detection of gravitational waves using LIGO.

**"Hearty welcome to students, research scholars and teachers...."**

Ms. Nimmi Narayanan  
Convener

Dr. Vinod. G  
H.O.D. Dept of Physics

Sri Santhi Namboothiri N  
Principal/DO

### Programme Schedule

**DAY 1: 29 - 10 - 2018 (MONDAY)**

9.30 am - 10.00 am - Inaugural Ceremony  
10.00 am - 11.00 am - LECTURE 1- Elementary particle Classification and Interaction  
Speaker: Dr. M. V. N. Murthy  
11.00 am - 11.15 am - Tea Break  
11.15 am - 12.00 pm - Lecture continues  
12.00 pm - 12.45 pm - Lunch Break  
12.45 pm - 04.00 pm - Lecture 2- Symmetries and its Conservation Laws  
Speaker: Dr. M. V. N. Murthy

**DAY 2: 30 - 10 - 2018 (TUESDAY)**

10.00 am - 11.30 am - Lecture 3 - Hadrons and Quarks  
Speaker: Dr. M. V. N. Murthy  
11.30 am - 11.45 am - Tea Break  
11.45 am - 01.00 pm - Lecture 3 continues  
01.00 pm - 02.00 pm - Lunch Break  
02.00 pm - 04.00 pm - Interactive Session chaired by Dr. M. V. N. Murthy

**DAY 3: 31- 10 - 2018 (WEDNESDAY)**

09.00 am - 10.15 am - Lecture 4 - Standard Model of the Universe  
Speaker: Dr. M. V. N. Murthy  
10.15 am - 10.45 am - Tea Break  
10.45 am - 12.30 pm - Lecture 5 - Introduction to General Relativity  
Speaker: Dr. K. Indulekha  
12.30 pm - 03.30 pm - Lunch Break  
03.30 pm - 03.45 pm - Lecture 6 - Gravitational Waves  
Speaker: Dr. K. Indulekha  
03.45 pm - 03.50 pm - Valedictory Function