

Invited talk on “Nobel prize in Physics - 2019: Physical cosmology and exoplanets”

Date: 08-01-2020

Participants: 120

Prof. Raghavan Rangarajan, Dean UG College Ahmedabad university, Ahmedabad



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Speaker
Prof. Raghavan Rangarajan
Dean
Undergraduate College,
Ahmedabad University

Date
8th January, 2020
Wednesday

Time
12:30 pm

Venue
Sir P. T. Sarvajani College of Science,
Surat



NOBEL PRIZE LECTURE SERIES



Physics Club
Department of Physics
Sir P. T. Sarvajani College of Science

Cordially invites you to
The Public Lecture

**“Nobel Prize in Physics 2019 --
Physical Cosmology and Exoplanets”**

Abstract

The Nobel Prize in Physics for 2019 was awarded to Prof. James Peebles of Princeton University, and Prof. Michel Mayor of the University of Geneva and Prof. Didier Queloz of the University of Geneva and the University of Cambridge. Prof. Peebles has contributed greatly to our current understanding of the history of the Universe, in particular about the existence and non-uniformity of the cosmic microwave background radiation (the background electromagnetic radiation that pervades the Universe), the synthesis of light nuclei in the early Universe, the presence of the invisible dark matter in galaxies, and the formation of large scale structure of the Universe. Profs. Mayor and Queloz discovered the first planet outside our solar system orbiting a solar-type star which has subsequently led to the discovery of 4000 other such exoplanets.

Brief Report:

The Nobel prize in Physics for 2019 was given for the theoretical discoveries in physical cosmology and for the discovery of an exoplanet orbiting a solar-type star. Prof. Raghavan Rangarajan was appropriately the right person to deliver a talk on this. Prof. Rangarajan divided his talk in two parts. In the first part, he discussed the work of James Peebles and in the second part, he discussed the work of Michel Mayor and Didier Queloz. He highlighted the important events of cosmology and also mentioned the techniques for the discovery of exoplanets. Lot of questions were showered by the students and the faculty which were equally well-responded by the resource person.