



SIR CHADRASEKHARA VENKATA RAMAN

Nobel Laureate

7 November 1888 – 21 November 1970

Sir C.V. Raman is one of the most renowned scientists produced by India. His full name was Chandrasekhara Venkata Raman. He was born on November 7, 1888 in Thiruvanaikoil, Tiruchirappalli-Dt., Tamil Nadu. He was the second child of Chandrasekhar Iyer and Parvathi Ammal. His father was a lecturer in Mathematics and Physics, so he had an academic atmosphere at home. He entered Presidency College, Madras, in 1902, and in 1904 completed his B.A. examination, winning the first place and the gold medal in Physics. In 1907, Sir C.V. Raman fulfilled his M.A. obtaining the highest distinctions. During those times there were not many opportunities for scientists in India. Therefore, Raman joined the Indian Finance Department in 1907. After his office hours, he carried out his experimental research in the laboratory of the Indian Association for the Cultivation of Science at Calcutta. He carried out research in acoustics and optics.

In 1930, Sir C.V. Raman was awarded with Nobel Prize in Physics for his pioneering work on scattering of light. The discovery was later named as "Raman Effect". In 1934, C.V. Raman became the director of the newly established Indian Institute of Sciences in Bangalore, where two years later he continued as a Professor of Physics. Other investigations carried out by Raman were: his experimental and theoretical studies on the diffraction of light by acoustic waves of ultrasonic and hypersonic frequencies (published in 1934-1942), and those on the effects produced by X-rays on infrared vibrations in crystals exposed to ordinary light. In 1947, he was appointed as the first National Professor by the new government of Independent India. He retired from the Indian Institute of Science in 1948 and a year later, he established the Raman Research Institute in Bangalore, where he worked till his last day on November 21, 1970.

Sir C.V. Raman Endowment was created with the corpus fund of the Department of Physics in the academic year 2019-2020. Endowment amount of Rs.1,00,000 was deposited into the bank, sponsored by Alumni students of Physics. The endowment focuses to promote research and development activities in the field of Physics and utilizing the interest from the fund for conducting conferences. Every year Eminent Personality in the field of Physics will be invited to deliver the Lecture to promote scientific information exchange among the students.



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**2nd SIR C.V. RAMAN ENDOWMENT LECTURE
ON
MYSTERIES OF THE DARK UNIVERSE**

Organized by
DEPARTMENT OF PHYSICS

DATE: 12.04.2023

VENUE: SEMINAR HALL 3

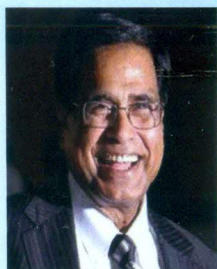
TIME: 11-00 a.m.

CHIEF GUEST



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Dr. SUDHIR KUMAR VEMPATI
Professor, Centre for High Energy Physics
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Professor Sudhir Kumar Vempati is an eminent researcher specialized in Standard Model of Particle Physics and more specifically in Supersymmetry & Supergravity, Extra Dimensions, Higgs Physics, Aspects of Astroparticle Physics like Dark Matter, Neutrino Masses, Computational Physics, building software for high energy theory simulations, etc. He obtained his Under Graduation and Post Graduation from Andhra Loyola College, Vijayawada and Andhra Pradesh University, Vishakhapatnam. He pursued his Ph.D. research at Physics Research Laboratory (PRL), Ahmedabad during 1995 to 2000. He was a Post Doctoral Fellow in Tata Institute of Fundamental Research, INFN, Sezione di Padova, Italy and Ecole Polytechnique Paris, France. He worked as Faculty Fellow (E) at the Institute of Mathematical Science, Chennai from there he moved to Indian Institute of Science, Bengaluru.

Presently, he is working as a Professor in the Centre of High Energy Physics, Indian Institute of Science (IISc), Bengaluru. To his credit, he has published over 79 research articles in peer reviewed International Journals. Most of his Ph.D. scholars are presently working in IITs spread over the country. He has mentored 11 Post Doctoral Fellows and presently a scholar is pursuing his PDF under his mentorship. Dr. Sudhir has also successfully completed many research projects sanctioned by DST, IRHPA, IUSTIF. In most of the projects, he was the sole investigator. He was awarded with the prestigious Ramanujam Fellowship from the Department of Science and Technology. These projects have been used to support the project assistants, postdoctoral fellows as well as the travel and computational requirements of students and postdoctoral fellows. Together with Prof. R. M. Godbole, he completed the Indo-US centre for Physics Beyond Standard Model, where Bangalore is the nodal point in India. The project was supported by Indo-US Science and technology Forum (IUSTTF). Since 2016, he is a part of two Indo-French projects sponsored by CEFIPRA.

One of the greatest milestones in his research career is the setting up of Computer Cluster Facility together with Prof. A. D. Patel. Set up at a budget of about 48 core, Intel Sandy bridge cluster made by Boston systems, the cluster installed in the computer centre of the new Physical sciences building is now commissioned. Several students are already using it now. He has plans to upgrade it in the coming months and install other useful software like Mathematica etc., for the use of entire centre. Also public software, The SUSEFLAV is meant for public use. It was directed towards the High Energy Physics community within the Institute, in India as well as abroad which was a great breakthrough.