



Institute Colloquium



S. N. Bose National Centre for Basic Sciences
(An Autonomous Research Institute established under DST, GOI)

Title:

Lecture on "The Life and Scientific Work of Steven Weinberg"

Abstract:

The renowned theoretical physicist and Nobel Laureate Steven Weinberg passed away earlier this year. Weinberg shared the Nobel Prize with Sheldon Glashow and Abdus Salam for their electro-weak theory, which predicted the existence of the neutral current that was subsequently discovered at CERN. Later at CERN the W and Z bosons responsible for the interactions were also discovered at their predicted masses. Weinberg's work spanned several decades and covered all aspects of particle physics, including low-energy effective theories, phenomenological Lagrangians, CP violation, behaviour of Green functions, renormalization group, as well as applications in cosmology. Besides his scientific work Weinberg wrote prolifically for the general reader and also wrote magisterial textbooks. In this talk we will take a tour through his work with some comments about his life about which not much is known as he was a private individual.



12 November 2021



4.00 PM



Webinar Link



YouTube Link

Speaker:

Prof. B. Ananthanarayan

Professor, Centre for High Energy Physics, Indian Institute of Science, Bangalore

Short biography of the Speaker

Prof. B. Ananthanarayan is Professor and former Chair of the Centre for High Energy Physics, Indian Institute of Science, where he will complete 25 years of service in December 2021. He took his B. Tech. degree in Chemical Engineering from IIT Madras, after his schooling in his hometown of Hyderabad, and his Masters and Ph. D. from the University of Delaware under the supervision of Prof. Qaisar Shafi. After his post-doctoral work at the Physical Research Laboratory, Ahmedabad, University of Lausanne, and University of Bern, he joined the IISc where he has been since. He was awarded the Rustom Choksi Award for Excellence in Science in 2014 and held the MSIL Chair Professorship of the Division of Physical and Mathematical Sciences 2015-2018. He is an author of over 100 refereed publications ranging from supersymmetric models and grand unification to dispersion relations and effective theory and most recently in Mellin-Barnes techniques in Field Theory. He has also written widely for the general public in Resonance and Current Science, and has served as Associate Editor of the latter. He had served and continues to serve on the Board of several Springer publications.

