



Indian Institute of Technology Kanpur



INSTITUTE LECTURE SERIES

January 05, 2024 (Friday) | 5.00 pm | L - 16

The Future of our Universe

Speaker: Prof. Ashoke Sen

About the Speaker



Professor Ashoke Sen is a theoretical physicist working at the International Centre for Theoretical Sciences (ICTS), Bangalore, and a distinguished alumnus of IIT Kanpur. His primary research interests are in the area of String Theory, a framework in theoretical high-energy physics that tries to unify all matter and its forces in terms of extended 'string'-like fundamental objects. One of his landmark contributions is the celebrated S-duality, an equivalence between different formulations of String Theory. He is also known for the study of D-branes and open string tachyon condensation. More recently, his works have led to breakthroughs in understanding black hole entropy and string field theory.

Prof. Sen did his undergraduate from Presidency College, Kolkata (1972-1975), following which he joined IIT Kanpur to pursue a master of science degree (1976-1978). He went to Stony Brook University, USA for his PhD (1978-1982). He has worked as a postdoctoral researcher at Fermilab and SLAC (1982-1988) and as a faculty in Tata Institute of Fundamental Research, Mumbai (1988-1995). He was a professor at Harish-Chandra Research Institute, Allahabad (1995-2021), prior to his current position in ICTS, Bangalore.

He has received several honours and accolades for his contributions to the subject. To name a few, he has received the ICTP prize in 1989, the Shanti Swarup Bhatnagar award in 1994, Fellow of Royal Society in 1998, Infosys Prize in 2009, Fundamental Physics Prize in 2012, Padma Bhushan in 2013, and the Dirac Medal in 2014. He has authored more than 300 research papers that have been cited over 30,000 times.

Abstract of the Talk

It has been known for about a hundred years that our universe is expanding but it is only during the last thirty years that we have realized that the rate of expansion is increasing with time. This has a profound consequence for the future of our universe, some of which the speaker will discuss in this talk.

all are cordially invited to attend
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