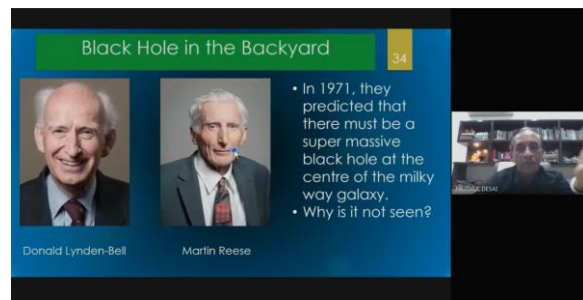
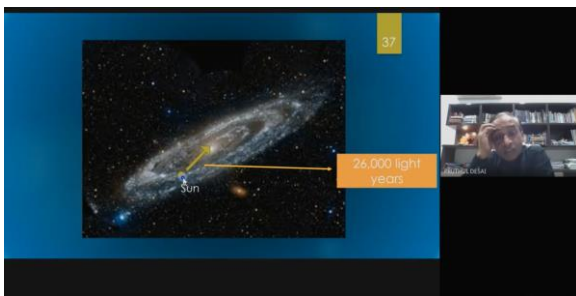
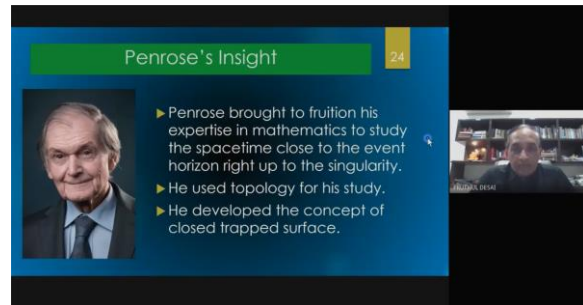
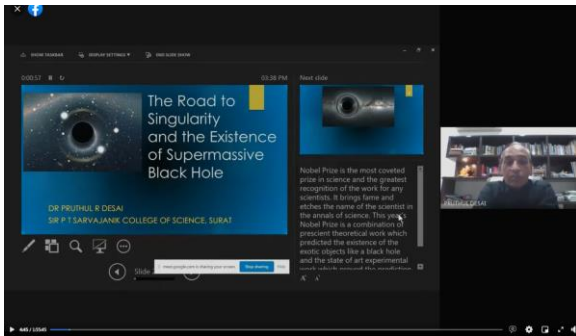


Webinar on “The Road to Singularity and The Existence of Supermassive Black Hole”

Date: 16-02-2021

Participants: 202

Dr. Pruthul R Desai, Department of Physics, Sir P. T. Sarvajanik College of Science, Surat



Physics Club
Sir P T Sarvajanik College of Science
Cordially invites you to
The webinar
“The Road to Singularity and the Existence of Super Massive Black Hole”
by
Dr. Pruthul Desai
16th February 2021 | 3:30 PM
Abstract

Black holes are one of the most enigmatic objects in the Universe whose very existence has been a matter of debate for fifty years. This year's Noble prize recognizes the work of one, Sir Roger Penrose, who ingeniously showed that given certain conditions, a black hole is a logical necessity as per the Einstein's General Theory of Relativity. The other half of the prize recognizes the revolutionary findings of Prof. Reinhard Genzel and Prof. Andrea Ghez, who independently discovered the existence of a monstrous black hole named Sagittarius A* which is 4 million times, the mass of the Sun. All the three laureates with their amazing work finally silenced the sceptics and black holes now are widely accepted as being truly “there.” A brief account of the pioneering work of the trio which paved the way for them to win the coveted Nobel Prize is presented.

Registration link:
<https://forms.gle/Wnch6h8EXmP7gB4v7>

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Brief Report:

In the talk, Dr. Desai began by mentioning the citations of the Nobel Committee which gave one half of the Nobel prize to a theoretician Sir Roger Penrose and the other half being equally shared by Prof. Rainhard Genzel and Andrea Ghez. He highlighted the solution of Einstein’s equation of general theory of relativity by Prof. Openheimer and his student Snyder who derived the collapse of a spherically symmetric star into a black hole. Using mathematical model and diagrams known as Penrose diagrams, Roger Penrose showed that under certain conditions the creation of black hole was inevitable. In the second half of the talk, Dr. Desai elaborated on the path breaking work of the two astronomers who indirectly showed that there is a super massive black hole is languishing at the center of the Milky way galaxy. The talk was well received by the audience.

Link to Webinar Video:

<https://www.facebook.com/ptcssurat/videos/478516296643269>