YOUNG ASTRONOMER'S MEET 2025 II

Public talk

Friday, 5th Dec, 4:30 pm

"SPINNING UP A NEUTRON STAR"

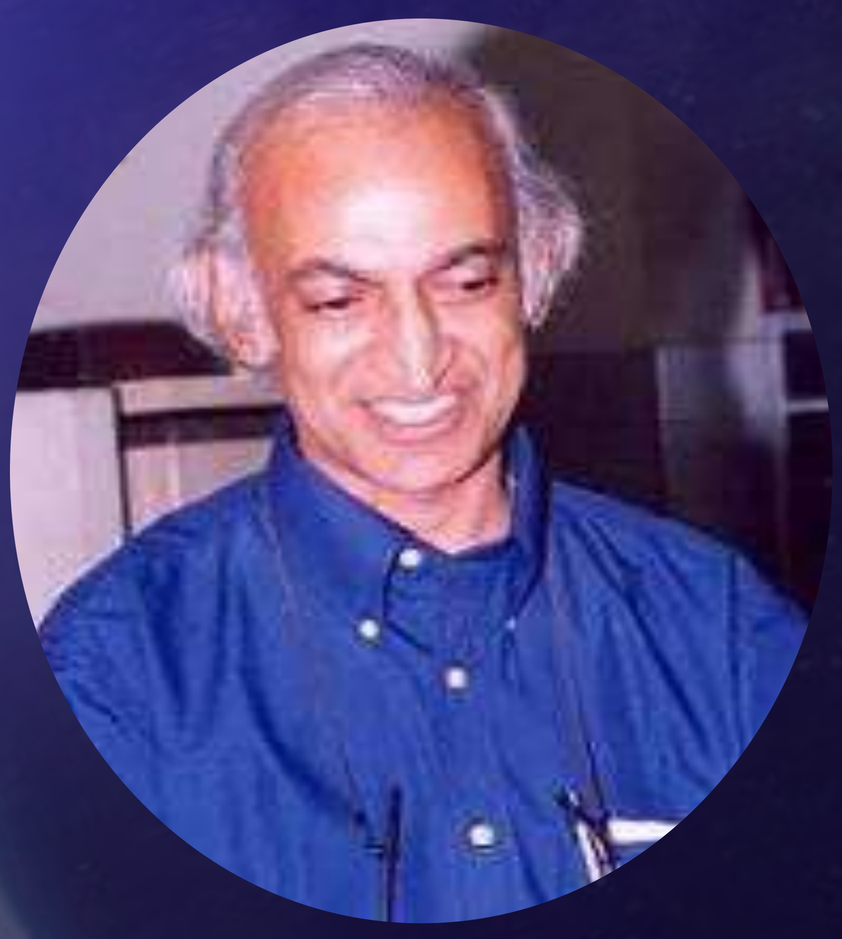
Venue : ANNIE BESANT LECTURE THEATRE - 2, IIT (BHU)

Millisecond pulsars were mysterious at their first discovery itself! In this lecture, Prof. Srinivasan will elaborate on the discovery of millisecond pulsars, their novel idea of seeing it as a recycled pulsar and the subsequent confirmations. He would then elaborate on the observational status of the millisecond pulsars today and its connection to gravitational wave generation as well as their detection. Join us for an amazing story from the cosmos.

Prof. Ganesan Srinivasan

Prof. G Srinivasan, a specialist in Condensed matter Physics and Astrophysics had distinguished career as Scientist and a teacher at the Raman Research Institute.

Prof. Srinivasan acquired Doctorate degree in 1970 from University of Chicago, USA. Between 1967-76 he worked at various places like the James Frank Institute, University of Chicago, USA; IBM Research Laboratory, Switzerland; Chalmers University of Technology, Sweden; Cavendish Laboratory, University of Cambridge, UK. In 1976, Prof. Srinivasan joined Raman Research Institute, and retired as a Professor in 2004. Subsequently, he served as a Visiting professor at ISRO from 2005-06.



Prof. Srinivasan was the first to study the effect of Coulomb interaction between localized electrons in disordered systems showing the appearance of an energy gap. His first work in astrophysics was the novel idea of 'recycled pulsars', which resolved mysteriously on the unusual parameters of the famous binary pulsar. This and his subsequent work on the evolution of supernova remnants drastically modifying the conventional picture has been fully vindicated by x-ray and radio observations.

Like to know more about Astronomy and Astrophysics?

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Young Astronomer's Meet 2025 II

Public talk

Saturday, 6th Dec, 5:45 pm

"Probing Structures in and with Neutral Atomic Hydrogen (HI)"

Venue : ANNIE BESANT LECTURE THEATRE - 2, IIT (BHU)

Neutral hydrogen is one of the main ingredients of the universe. The 21-cm line from the neutral hydrogen works as an excellent probe of for the structures starting from tiny scales in our galaxies to the structure in the universe itself. This talk will focus on probing structures in the neutral atomic hydrogen and probing structure with the 21-cm line.

Prof. Avinash A. Deshpande

Prof. Avinash Anant Deshpande is an Indian astrophysicist and a professor of physics at Raman Research Institute (retired). Prof. Deshpande have contributed towards the studies of *the pulsar magnetospheric emission regions* and in the elucidation of *unphysical ultra-dense neutral hydrogen irregularities in the interstellar space*.

Trained as an electrical engineer from the IIT, Kanpur he did his doctoral research at RRI. Subsequently, did his postdoctoral work at University of Tasmania during 1990–92. On his return to India, he resumed his service at RRI and holds the position of a professor there, continuing his research at the electronic laboratory of the institute. He has been involved in a number of projects undertaken by RRI and he is credited with the development of a receiver for *high time-resolution studies of pulsars at low radio frequencies*. The CSIR, the apex agency of the Government of India for scientific research, awarded him the Shanti Swarup Bhatnagar Prize for Science and Technology, one of the highest Indian science awards, for his contributions to physical sciences in 2002. Prof. Deshpande continues to give guest lectures at various institutes to encourage more students to join the field.

Want to join radio astronomy research?

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