

# COLLOQUIUM

## “Star Formation in the Milky Way Galaxy”

**Abstract:** Stars form in molecular clouds. These molecular clouds are regions of dense gas and dust, and can be roughly categorized as dark cloud complexes where low-mass star formation occurs, and as giant molecular clouds where both low- and high-mass star formation occurs. One of the challenges in star formation theory today is describing the different processes by which stars form. They form not only in isolation, but also in groups of 10-100 stars, or in clusters of more than 100 stars. A particular mode of star formation will depend on the initial conditions. Surveys of star-forming regions have shown that the majority of stars form in clusters. Therefore it has become increasingly important to observe and understand star formation in clustered environments. In this talk, I shall present recent results obtained from our multi-wavelength study of a few Galactic massive star-forming regions, and examine the star formation scenario. Specifically, I shall discuss results obtained as part of our work carried out using TIFR's own observational facilities.

By

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Prof. Ojha received his Bachelors and Masters degree from Kumaon University, Nainital. He went to Strasbourg University (France) for his doctoral work and completed his Phd in 1994. He came back to India in 1995 as a postdoctoral fellow in the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India. He then worked as a postdoctoral fellow at Institut d'Astrophysique de Paris (IAP), France for a year before joining as a faculty at TIFR in 1997. His principal interest lies in Interstellar medium, Multi-wavelength study of Galactic star-forming regions, Galactic structure & kinematics of the stellar populations of our Galaxy. He is also interested in Astronomical instrumentation developments for ground-based telescopes and development of balloon & space-borne payloads for space-based infrared astronomy.

**Day & Date :** Tuesday, February 18, 2014  
**Time :** 15:45 hrs  
**Venue :** Seminar Room, PF-AG-14, Prefabs, Near Annabhau Sathe Bhavan, University of Mumbai, Vidyanagari, Kalina Campus, Mumbai - 400 098.

*All are Welcome*