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## 2<sup>nd</sup> Radha Gobinda Chandra Memorial Lecture

### **‘Astronomy Through Superhot To Cold Atoms’**

*By Dr. Sultana Nurun Nahar*

This is for the 2<sup>nd</sup> time that **Bangladesh Astronomical Society** and **Society for Popularization of Science in Bangladesh** have organized a lecture to commemorate the contribution of Radhagobinda Chandra to the field of astronomy in Bangladesh. This year, Dr. Sultana Nurun Nahar will present the 2<sup>nd</sup> Radha Gobinda Chandra Memorial Lecture.

#### **Title 2011: Astronomy Through Superhot To Cold Atoms**

Synopsis: The astronomical matters are mainly atoms and the light they emit. Atoms are formed from nuclear fusion in stars and during supernova explosions. Black holes which are the densest object with strongest gravity are detected by superhot atoms. The radiation flow in our sun is a standard to study the interior of other stars. The cold atoms in a planetary nebula (like the ‘God’s Eye!’) tell us about the structure of that nebula. Dr. Sultana Nurun Nahar will illustrate the topic on fundamental atomic astrophysics.

**Dr. Sultana Nurun Nahar** obtained her M.Sc from University of Dhaka and Ph. D. from Wayne State University, USA. She is currently a senior research scientist in the astronomy department of the Ohio State University. She has worked as a visiting NASA-Scientist and ITAMP-Scientist in Harvard University. She is a fellow of the American Physical Society(APS) and International Astronomical Union(IAU). Her main research interests lie in different aspects of astrophysics.

**Radha Gobinda Chandra**, was a pioneer in observational astronomy in the region of Bengal, comprising modern day Bangladesh and West-Bengal. He is especially famous for his observation of variable stars. He observed more than 49,700 variable stars and became one of the first international members of American Association of Variable Star Observers. In 1928, France government awarded him with the title ‘Officer d’Academic Republic Francaise’ because of his work on variable stars.