



**Faculty of Natural Sciences
Jamia Millia Islamia
New Delhi**

National Science Day Lecture

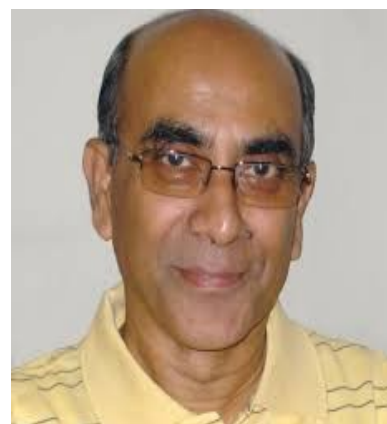
Quest for the Origin of Elements: Nucleosynthesis

by

Prof. Amit Roy

Former Director, Inter-University Accelerator Centre, New Delhi

Abstract: Humans have always been curious about their surroundings and the progress of civilisation is due to this curiosity. As a result of this curiosity, we know that there are 92 naturally occurring elements on earth of which all matter is made of. How and where were these elements formed? What controls their abundances? Do all heavenly bodies contain all these elements? How are new elements synthesized in the laboratory? In this lecture we shall discuss these questions and see how answers to these questions can be obtained.



Amit Roy completed his Masters in Physics from Delhi University in 1968 and his Ph.D. from Tata Institute of Fundamental Research, Mumbai in 1975, where he continued till 1990 as Associate Professor. He spent two years at Florida State University, USA as a Post-Doctoral Fellow and has worked at KVI, Netherlands and Argonne National Laboratory, USA as visiting scientist. He joined Inter-University Accelerator Centre (formerly Nuclear Science Centre) as a senior scientist in 1991 and was its director from 2001 till July 2013. He led the team for building the Superconducting Linac at IUAC and pioneered the development of Niobium superconducting cavity for accelerators in India. He was DAE Raja Ramanna Fellow at Variable Energy Cyclotron Centre, Kolkata, till May 2017. Currently, he is Guest Lecturer at Indian Association for the Cultivation of Science, Kolkata and Adjunct Professor at Manipal Centre for Natural Sciences.

His research interests are in Nuclear Physics, Accelerator Physics and Atomic Physics. He is a Fellow of the National Academy of Sciences, India and received the Eminent Scientist award of the Indian Nuclear Society. He has served as member of Governing Boards and Councils of several institutes and as member of many National and International Scientific and Technical Committees. He was President of Indian Cryogenics Council for two terms and Chairman of Asian Committee of Future Accelerators for one term. He enjoys communicating science and has written the Great Experiments Series in the Journal of Science Education, Resonance.

Sunday, 28th February, 2021 at 10:30 AM

Google meet Link : <https://meet.google.com/mef-nvet-qwn>