



Presents

NOBEL PRIZE 2023 (PHYSICS) : THE WORLD OF ATTOSECOND PHYSICS

ON NATIONAL SCIENCE DAY 2024

PLACE:

**CNCB Academy of Science & Technology
Taradapada , Jagatsinghpur-754103, Odisha
<https://cncbacademy.com>**

28th February 2024

Speaker:

Dr. Devashish Sanyal

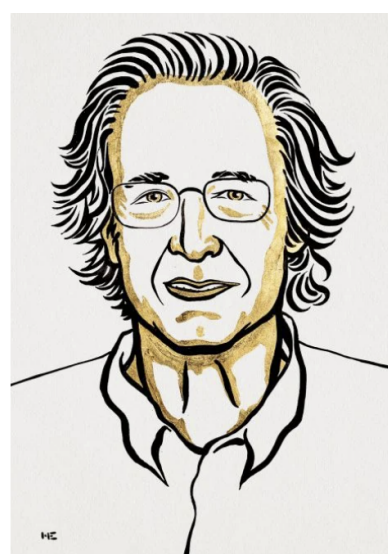
**M.S.(IISc, Bangalore), Ph.D (IACS, Kolkata), Postdoc Fellow (IOP, BBSR)
Associate Prof (Dept of Physics), CNCB**

Date and Time : 28th February 2024, 10:00

ABSTRACT:

On National Science Day we celebrate the remarkable discovery of the Raman Effect on this very day in 1928 at IACS, Kolkata, for which C. V. Raman was awarded the Nobel Prize in 1930. In this seminar a novel topic - the measurement of dynamics in the indcredibly ultra-small temporal world of attosecond physics - will be discussed. Attosecond physics deals with electronic motion that happens in a time scale of few hundreds of attosecond with 1 attosecond being 10^{-18} sec. The motivation and physics behind the generation of attosecond pulse, the technique of detecting electronic motion using two colors and example involving photoemission will be discussed. The seminar will be followed by the recorded Nobel Lecture by Anne L' Huillier of duration 30 mins.

CNCB invites all



III. Niklas Elmehed © Nobel Prize Outreach
Pierre Agostini
Prize share: 1/3



III. Niklas Elmehed © Nobel Prize Outreach
Ferenc Krausz
Prize share: 1/3



III. Niklas Elmehed © Nobel Prize Outreach
Anne L'Huillier
Prize share: 1/3

**The Nobel Prize in Physics 2023 was awarded to
Pierre Agostini, Ferenc Krausz and Anne L'Huillier
"for experimental methods that generate
attosecond pulses of light for the study of electron
dynamics in matter"**