

# Seminar

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## Institute for Plasma Research

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**Title :** Precision mass measurement using Penning Ion trap at VECC

**Speaker:** Dr. Parnika Das  
Variable Energy Cyclotron centre, Kolkata

**Date :** 30th October 2019 (Wednesday)

**Time :** 11.00 AM

**Venue :** Seminar Hall, IPR

### **Abstract:**

An introduction to nuclear mass measurement and role of Penning Ion trap in precision mass measurement will be discussed. A Cryogenic Penning Ion trap facility is being built at Variable Energy Cyclotron Centre, Kolkata for beta decay studies and high precision nuclear mass measurements. The main principles of electromagnetic confinement of various species from elementary particles to heavy atoms will be described [1]. Design and challenges in developing this facility at VECC will be discussed.

### References:

[1] K. Blaum, Phys. Rep. 425 (2006) 1

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