

VECC NEWSLETTER

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Table of Contents

ACCELERATOR	2
Operational Activities of K130 Room Temperature Cyclotron	2
Fabrication Of Resin Casted Steering Magnet Coils For K-500 Cyclotron Beamline In VECC	3
Status Report Medical Cyclotron Facility 30MeV at VECC Kolkata	4
Estimation of Radioactive Inventory for The New Target Assembly in Materials Science Beam line at MCF, Kolkata 5	
BRIT, Kolkata and VECC Jointly Produced Germanium-68 First Time in India for $^{68}\text{Ge}/^{68}\text{Ga}$ Generator Production ...	6
PHYSICS	7
Long –Time Confinement of Electron Cloud in VECC Penning Trap	7
Time-walk Characteristics of 1.5"x1.5" CeBr ₃ Detector Coupled with Hamamatsu PMT R13089-100	7
Estimation of an Empirical Formula for Efficiency of a BEGe Type Detector Using Machine Learning Based Algorithm	9
CHEMISTRY	10
Adsorption Behavior of Diatomic Gases with Defected Hexagonal Boron Nitride Nanosheet : A DFT study	10
TECHNOLOGY DEVELOPMENT	11
Design and Development of High Power Horizontal Slit cum Collimator for MC18 Beamline.....	11
Design and Development of Quadrupole Magnet for MC18 Beamline.....	13
High Pressure Water Rinsing System Developed for RIB E-Linac Project, VECC, Kolkata.....	14
Niobium Dumb-bell Development for 650MHz Low Beta Superconducting Radio Frequency (SCRF) Cavity.....	15
AWARDS & HONOURS.....	16
EVENTS	18

Chamber(MuCh) System for the Compressed Baryonic Matter Experiment at FAIR, achieved the **Best Poster Award** for his contribution entitled “Preliminary test results of real size GEM modules in nucleus-nucleus collisions at mCBM campaign 2022”, in the 66th DAE



Nuclear Physics Symposium, held from 01-05 December, 2022 at Cotton University, Guwahati, India.

Dr. Sushant Kumar Singh, Scientific Officer (E) in the Physics Group, VECC, was awarded the C. V. K. Baba Award of Indian Physics Association (IPA) for the **Best PhD Thesis** on "Hydrodynamical Modeling of QCD Fluid with Critical Point in the Equation of State" at the recently concluded 66th



DAE-BRNS Symposium on Nuclear Physics 2022, held at Cotton University, Guwahati, during December 1-5, 2022. The award was instituted by IPA in the name of Prof. C. V. K. Baba, one of the most renowned nuclear physicist of India.

Dr. Pratap Roy of the Experimental Nuclear Physics Division, Physics Group, VECC, Kolkata has been awarded the **Young Achiever Award 2022** by the organizing committee of the DAE symposium on

Nuclear Physics (**snp2022**) for his excellent contribution to the field of “Nuclear Level Density and Thermodynamics”. Dr. Roy has been a key person in executing a detailed experimental program at VECC to understand the statistical and thermal properties of atomic nuclei. Some of the remarkable works of Dr. Roy in these areas include: providing experimental signatures of a pairing-phase transition, evidence for the reduction of nuclear level density (NLD) away from β -stability,



observation of collective enhancement and its fadeout in NLD etc. Some of these results have profound implications for nuclear structure and nuclear astrophysics. Dr. Roy has also played a significant role in the design, and development of fast neutron detectors for the time-of-flight (TOF) array at VECC and MONSTER (**Modular Neutron Spectrometer**) array at FAIR.

Dr. Shreyasi Acharya, who completed her Ph.D. from the EHEP&A group of VECC (HBNI) in Dec 2021 under the supervision of Prof. Subhasis Chattopadhyay has been awarded with the **ALICE Thesis Award - 2022**, for her thesis entitled "Multiparticle production in proton-proton collisions at the LHC energies", by the international ALICE



collaboration at LHC-CERN for the year 2021-2022. In her thesis, Shreyasi has performed extensive analysis of ALICE data collected for pp collisions at LHC energy and extracted the yield of electrons, the decay products of heavy flavoured particles, which are the messengers of the reaction mechanism in such collisions. Her detailed and precise work led to some very interesting results enlightening the community in this field of research.

Dr. Zubayer Ahammed, SO/G, EHEP&A Group has been elected as the next **Spokesperson of the ALICE/STAR-India Collaboration** for a two-year period 2023-24. ALICE is one of the experiments at



the Large Hadron Collider at CERN. About 40 scientists and 60 research students from different Indian Institutes and Universities are working in this experiment.

EVENTS

Due to the COVID-19 pandemic, the VECC staff club could not conduct any activities. However, since we are moving towards normalcy at a great pace, the VECC staff club has been organising several activities during the period of July 2022 to December 2022.

A photography contest cum exhibition in two categories, nature and wildlife, was conducted on September 16, 2022, for the first time in the VECC. There was an enthusiastic and overwhelming response from VECC employees. The Judges selected best three photographs, and prizes were awarded to the participants.

