

Workshop on

## Digital INGA@VECC: The Milestones Achieved & The Miles Ahead

organized by

Department of Physics & IQAC, Victoria Institution (College)

78B Acharya Prafulla Chandra Road, Kolkata 700009

in collaboration with

UGC-DAE Consortium for Scientific Research, Kolkata Centre

Sector III, LB-8 Bidhannagar, Kolkata 700106

10<sup>th</sup> & 11<sup>th</sup> of March, 2022

The recent campaign of the **Indian National Gamma Array (INGA)**, that was setup at the Room Temperature Cyclotron (RTC) in VECC, Kolkata has been implemented through more than 30 experiments carried out in different phases of the programme. The facility was sustained by **resources** pooled from **VECC, SINP, and the Kolkata Centre of UGC-DAE CSR**. The User Groups included those from Institutions, Universities and Colleges across the country such as Victoria Institution (College), Visva Bharati, TIFR, BARC, IIT-KGP, IEST, University of Delhi, University of Mumbai, CEBS-UM, SINP, VECC, UGC-DAE CSR and others. Results from some of these efforts have already been published in international peer reviewed journals (**Physical Review Letters, Physics Letters B, Physical Review C, Nuclear Physics A**) of repute while some are currently in submission. Data analysis is in progress for some of the projects. The present Workshop proposes to review the accomplishments from the campaign as well address issues that might be impeding the progress of the data analysis endeavors that are presently underway. The forum will deliberate on the modalities for the **next campaign** of INGA at VECC, in the light of several developments that have come up since the previous campaigns. The programme of the Workshop will principally consist of **invited talks** by research scholars who have been working on the analysis of data from the experiments at VECC and by resource personnel associated with the INGA facility at VECC and other accelerator centers in the country. Intent for participating in the Workshop may please be communicated to Dr. Shinjinee Das Gupta, Victoria Institution (College) at **ingavecc@gmail.com** by 8<sup>th</sup> March, 2022.

Workshop on  
Digital INGA@VECC: The Milestones Achieved & The Miles Ahead

*organized by*

Department of Physics & IQAC, Victoria Institution (College)  
78B Acharya Prafulla Chandra Road, Kolkata 700009

*in collaboration with*

UGC-DAE Consortium for Scientific Research, Kolkata Centre  
Sector III, LB-8 Bidhannagar, Kolkata 700106

10th & 11th of March, 2022

The recent campaign of the **Indian National Gamma Array (INGA)**, setup at the Room Temperature Cyclotron (RTC) in VECC, Kolkata, was implemented through more than 30 experiments carried out in different phases of the programme. The facility was sustained by **resources** pooled from **VECC, SINP**, and the **Kolkata Centre of UGC-DAE CSR**. The User Groups included those from Institutions, Universities and Colleges across the country such as Victoria Institution (College), Visva Bharati, TIFR, BARC, IIT-KGP, IEST, University of Delhi, University of Mumbai, CEBS-UM, SINP, VECC, UGC-DAE CSR and others. Results from some of these efforts have already been published in international peer reviewed journals of repute while some are currently in submission. Data analysis is in progress for some of the projects. This two-day online workshop was aimed at reviewing the physics results of significance, accomplished in the campaign, as well as at addressing the issues that might be deterring the progress of the data analysis exercise that are currently underway. The inauguration of the event was graced by the **Directors** of **UGC-DAE CSR** and **VECC** along with the **Teacher-in-Charge** of the **Victoria Institution (College)**, the **Centre-Director** of the **Kolkata Centre of UGC-DAE CSR**, the **Group Head** of the **Physics Group** at **VECC**, the **Head of the Experimental Nuclear Physics Division, VECC** and the **Coordinator of the IQAC** at the **Victoria Institution (College)**. The principal component of the workshop was presentations by research scholars who are spearheading the data analysis endeavours and the talks were followed by discussions, suggestions and comments by the audience that included resource personnel and senior members of the fraternity for nuclear structure research. The research scholars represented user groups from teaching and/or research institutions across the country that have used the INGA facility at VECC along with the associated **digital DAQ of the Kolkata Centre** and the **software resources** therewith. The workshop also hosted presentations by resource personnel of the INGA setup at VECC and other accelerator centers in the country. These talks reviewed the existing infrastructure as well as described the different developments being pursued for the advancement of the INGA facility. The workshop provided platform for discussions and exchanges on the pathways ahead in the domain of nuclear structure studies using INGA, that'll facilitate its evolution into sustaining a globally competitive research programme.



*The online workshop was attended by 30-40 participants and hosted around 20 presentations by research scholars, resource personnel of the INGA facility and other experts in the domain.*



shinjinee dasgupta &lt;shinjinee14@gmail.com&gt;

---

**Request to Deliver a Talk at the Workshop on INGA@VECC**

1 message

**INGA VECC** <ingavecc@gmail.com>

Thu, Mar 3, 2022 at 4:50 PM

To: r.palit1@gmail.com

Cc: ssg.iuc@gmail.com, gopal@vecc.gov.in, sarmi@vecc.gov.in, shinjinee14@gmail.com, rajarshi.raut@gmail.com

Dear Prof. Palit,

Respectful Greetings !

Trust you are doing fine and all is well at your end.

The Local Working Group for the INGA at VECC, is very glad that the facility has been used for several experiments through different phases of the campaign. You'll be happy to know that we're in the process of organizing a workshop, on 10th & 11th of March, 2022, in order to review the status of different measurements that were carried out therein. Please find a poster on the event, attached herewith.

The objective of the Workshop also includes making the community aware of the developments being undertaken at the other accelerator centers that host the INGA setup. In this context, we humbly invite you to deliver a talk on the development of the hybrid array at TIFR along with the allied topics of interest. The presentation will be of 20 minutes followed by around 5 minutes of discussions.

We realize that the event is being organized on a very short notice and profoundly apologize for the consequent inconvenience. We earnestly hope that you'll consider our request favorably and we look forward to having you amongst us for the Workshop.

Best regards,  
Shinjinee Dasgupta & Rajarshi Raut  
(for the Local Working Group, INGA@VECC)

---

 **Poster\_INGAWShop\_03-2022.pdf**

21K