

**WORKSHOP ON RECENT DEVELOPMENTS IN BEAM DIAGNOSTIC SYSTEMS**  
(Friday, September 23, 2022 at IUAC, New Delhi, India)

DBDS-2022 welcomes you to the Workshop on Recent Developments in Beam Diagnostic Systems” to be held on September 23, 2022 at Inter University Accelerator Centre, New Delhi India. We look forward to meeting you in this event that provides an opportunity to exchange innovative ideas with the delegates coming from all sectors of particle accelerator science and technology including academia and industry.

**DBDS-2022 INVITED TALKS**  
(Friday, September 23, 2022)

**LIST OF SPEAKERS**

- Dr. Rajesh V Hariwal- IUAC, New Delhi, India
- Dr. Alexander Scheinker- LANL, USA
- Dr. Surendra Yadav- RRCAT, Indore, India
- Shri. Akhilesh Karnewar- RRCAT, Indore, India
- Dr. Alexander S Aryshev- KEK, Japan
- Dr. Jose V Mathew- BARC, Mumbai, India
- Shri. Rajesh Keshwani- BARC, Mumbai, India
- Dr. Siddhartha Dechoudhary- VECC, Kolkata, India
- Shri. Chinmay Nandi- VECC, Kolkata, India
- Shri Peter Leban- Instrumentation Technologies, Slovenia
- Shri Sahil Pershad- Geebee International, India
- Shri. Sanchit Bhatia- Tektronix India Pvt Ltd, Bangalore, India
- Dr. Abhay Joshi- Tektronix India Pvt Ltd, Bangalore, India
- Shri. Deepak Rattan- Tektronix India Pvt Ltd, Bangalore, India

**WORKSHOP ON RECENT DEVELOPMENTS IN BEAM DIAGNOSTIC SYSTEMS**  
**(Friday, September 23, 2022)**  
**Maharshi Kanad Auditorium, IUAC Campus, New Delhi, India**

**\*SCIENTIFIC PROGRAMME**

| <b>Time</b>                            | <b>Programme</b>  | <b>Remarks</b>                                |
|--|---|---|
| 8:00 - 9:00 Hrs<br><b>Registration</b> | <b>Maharshi Kanad Auditorium, IUAC Campus, New Delhi</b>  |   |
| 9:00 - 9:40 Hrs<br><b>Inauguration</b> | <ul style="list-style-type: none"> <li>• Lighting of Lamp by Chief Guest, Director- IUAC and the dignitaries on the Dais and Invocation.</li> <li>• Felicitation of Chief Guest by Director-IUAC</li> <li>• Director's Welcome Address: <b>Prof. Avinash Chandra Pandey</b></li> <li>• Key Note Address: <b>Chief Guest: Prof. Santishree Dhulipudi Pandit (Honourable Vice-Chancellor JNU, New Delhi)</b></li> <li>• Vote of Thanks: <b>Dr Rajesh V Hariwal</b></li> <li>• <b>National Anthem (Everyone will stand)</b></li> </ul> |   |
| 9:40 - 10:10 Hrs                       | <b>Industrial Exhibition Inauguration by Chief Guest &amp; High Tea</b>   |   |
| 10:10 - 10:40 Hrs<br>IT-01             | <b>Dr. Alexander Scheinker- LANL, USA</b><br>Adaptive Physics-Informed ML for Robust Non-invasive Beam Diagnostics  | Session-Chairman<br><b>Dr Rakesh Bhandari</b> |
| 10:40 - 10:55 Hrs                      | <b>Dr Rajesh V Hariwal</b><br>Overview: Beam Diagnostic Systems at IUAC   |   |
| 10:55 - 11:25 Hrs<br>IT-02             | <b>Shri. Rajesh Keshwani- BARC, Mumbai, India</b><br>Beam Sensors and Instrumentation Systems for Measurement of Transverse and Longitudinal Beam parameters.   |   |
| 11:25 - 11:30 Hrs                      | <b>Break</b>  |   |
| 11:30 - 12:00 Hrs<br>IT-03             | <b>Dr. Siddhartha Dechoudhary- VECC, Kolkata, India</b><br>Longitudinal and Transverse Beam Diagnostic Development at VECC RIB Facility   | Session-Chairman<br><b>Shri Rajeev Mehta</b>  |
| 12:00 - 12:30 Hrs<br>IT-04             | <b>Shri. Akhilesh Karnewar-RRCAT, Indore, India</b><br>Characterization and Measurement of Beam Parameters for Industrial e-Linac   |   |
| 12:30 - 13:00 Hrs<br>IT-05             | <b>Dr. Jose V Mathew-BARC, Mumbai, India</b><br>Longitudinal Beam Diagnostics for LEHIPA, BARC  |   |
| 13:00 - 14:00 Hrs                      | <b>Lunch</b>  |   |
| 14:00 - 14:30 Hrs<br>IT-06             | <b>Shri. Chinmay Nandi- VECC, Kolkata, India</b><br>Development of Beam Diagnostic Systems for K500 Cyclotron and Medical Cyclotron at VECC   | Session-Chairman<br><b>Dr P N Prakash</b>     |
| 14:30 - 14:45Hrs<br>ITE-07             | <b>Shri Sahil Pershad- Geebee International, India</b><br>Recent Beam Diagnostic Devices and Instrumentations   |   |
| 14:45 - 15:00 Hrs<br>ITE-08            | <b>Shri. Sanchit Bhatia- Tektronix, Bangalore, India</b><br>Data Acquisition and Analysis for Beam Diagnostic and High Energy Physics Exp.  |   |
| 15:00 - 15:30 Hrs<br>ITE-09            | <b>Dr. Abhay Joshi and Sri Deepak Rattan, Tektronix, Bangalore, India</b><br>Precision Low Current Measurements and Device Characterization for Irradiated Material and Device testing  |   |
| 15:30 - 16:00 Hrs                      | <b>Tea Break</b>  |   |
| 16:00 - 16:30 Hrs<br>IT-10             | <b>Dr. Alexander S Aryshev- KEK, Japan</b><br>Beam Diagnostic System of the LUCX and ATF Facilities of KEK  | Session-Chairman<br><b>Dr Subhendu Ghosh</b>  |
| 16:30 - 16:45 Hrs<br>ITE-11            | <b>Shri Peter Leban, Slovenia</b><br>Stabilization Options for the BPM Readout Systems  |   |
| 16:45 - 17:15 Hrs<br>IT-12             | <b>Dr. Surendra Yadav, RRCAT-Indore, India</b><br>Application of AI Techniques for Enhancement of Beam Diagnostics Systems and Operational Performance of Indus-2 Synchrotron Radiation Source  |   |
| 17:15 - 17:30 Hrs                      | <b>Closing and Feedback-Session</b>   |   |
| 17:30 - 18:00 Hrs                      | <b>Tea &amp; Snacks</b>   |   |
| 18:00 - 19:00 Hrs                      | <b>IUAC Accelerator Facility Visit</b>  |   |
| 19:00 -19:30 Hrs                       | <b>Break</b>  |   |
| 19:30 - 21:30 Hrs                      | <b>Dinner</b>   |   |

\*Tentative, IT-Invited Talk, ITE-Invited Talk Exhibitors.

**FINAL LIST OF DBDS-2022 DELEGATES**

**Please Note:** Listed delegates are requested to send their travel plan and accommodation request to [dbds.iuac@gmail.com](mailto:dbds.iuac@gmail.com). Please contact for accommodation related help to Shri P N Patra (+ 91-9212024157)/Shri Kedaramal (+ 91-8168838126)/ Dr Rajesh Hariwal (+ 91-9718225014).

| <b>Sr. No.</b> | <b>NAME</b>              | <b>AFFILIATIONS</b>  |
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