कार्यक्रम अनुसूची Programme schedule

DAE-BRNS भारतीय कण त्वरक सम्मेलन 18-21 नवंबर, 2019 अंतर-विश्वविद्यालय त्वरक केंद्र, नई दिल्ली

DAE-BRNS
Indian Particle Accelerator Conference
November 18-21, 2019
Inter-University Accelerator Centre, New Delhi







	Monday 18th November
10:00-11:00	Inauguration and address by the Chief Guest: Prof. D. P. Singh, Chairman, University Grants Commission.
11:00-11:15	Inauguration of Industrial Exhibition and Group Photograph.
11:15-12:00	High Tea
Plenary Sessio Chair: Prof A	on 1 (Main Auditorium) . C Pandey 12:00-13:00
12:00 12:30	Overview of Accelerator Activities at RRCAT Speaker: Shri Debashis Das, RRCAT
12:30-13:00	Accelerators for Accelerator Mass Spectrometry Program: Upcoming National Geochronology Facility at IUAC, New Delhi Speaker: Dr. S. Chopra, IUAC
13:00-14:00	Lunch
Parallel Session Chair: Dr S C	on A1 (Seminar hall , Laboratory Complex) Chopra 14:00-16:00
14:00-14:15	Operational Status K130 Variable Energy Cyclotron. Speaker: Mr. Prodyut P.S. Chakraborty, VECC
14:15-14:30	Development and Commissioning of Compact Digital LLRF System for Indus-2 SRS. Speaker: Mr. Nitesh Tiwari, RRCAT
14:30-14:45	Three decades with 15 UD Pelletron Accelerator at IUAC, Delhi. Speaker: Mr. Rajan Joshi, IUAC
14:45-15:00	Physics Design Studies For Proposed High Brightness Synchrotron Radiation Source (HBSRS) In India. Speaker: Mr. Ajay Ghodke, RRCAT
15:00-15:15	Low Emittance Optics Optimization During Operation of Indus-2 Speaker: Dr. Ali Akbar Fakhri. RRCAT
15:15-15:30	Betatron Coupling Measurement and Its Correction in Indus-2 Storage Ring.

Speaker: Mr. Riyasat Husain, RRCAT

Design studies for a THz-FEL at RRCAT. Speaker: Mr. Ravdheer Saini, RRCAT

15:30-15:45

Parallel Session Chair: Dr Pita	n A2 (Main Hall, Auditorium) mber Singh 14:00-16:00
14:00-14:15	Performance Studies of 1 MW CW Klystron Under Pulsed Operating Condition Using 100 kV, 20 A Long Pulse Converter Modulator. Speaker: Mr. Reghu Thekkeppat, RRCAT
14:15-14:30	Design, Development and Testing of High Voltage and High Frequency Transformer for High Power DC Accelerator. Speaker: Mr. Rupesh Patel, BARC
14:30-14:45	RF activities and recent development of RF systems of VECC- RIB. Speaker: Dr. Hemendra Kumar Pandey (VECC)
14:45-15:00	Development of RF components for SRS Indus-2 and HTS. Speaker: Mr. Ramesh Kumar, RRCAT
15:00-15:15	Realization of 107.5MHz RF Power System for High Power Recirculating Accelerator. Speaker: Mr. Mukesh Kumar Jain, RRCAT
15:15-15:30	Design and Development of Accelerating Test Tube Facility for DC Electron beam accelerator. Speaker: Mr. S Dewangan, BARC
15:30-15:45	High Stability, Low Ripple, Precision Electron Gun Filament Heating DC Power Supply Floating at -30 kV DC. Speaker: Mr. Apollo Kasliwal, RRCAT
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	on A3 (Seminar Hall, Auditorium)
Chair: Dr Ajit	hkumar B P 14:00-16:00
Chair: Dr Ajit	High Density Analog Readout Module on VME Bus For Accelerator Control Applications.
Chair: Dr Ajit 14:00-14:15	High Density Analog Readout Module on VME Bus For Accelerator Control Applications. Speaker: Dr. Kundan Singh, IUAC Development of Data Acquisition System for Eccentricity Measurement Setup of Five-cell 650 MHz SCRF Cavity.
Chair: Dr Ajit 14:00-14:15 14:15-14:30	High Density Analog Readout Module on VME Bus For Accelerator Control Applications. Speaker: Dr. Kundan Singh, IUAC Development of Data Acquisition System for Eccentricity Measurement Setup of Five-cell 650 MHz SCRF Cavity. Speaker: Mr. Santosh Chauhan ,RRCAT Design and Development of Low Level RF (LLRF) Control System for RF Transmitters operated at 37.8 MHz
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16:00-16:30 Tea

	n B1 (Seminar hall , Laboratory Complex)
Chair: Dr P N	
16:30-16:45	Direct Observation of the Viscous Layer Formation and Breakdown during Electro Polishing of Niobium and Its Corelation with Surface Morphologies. Speaker: Mr. Aniruddha Bose ,RRCAT
16:45-17:00	Physics Design Study of Multispoke Resonators and their Comparison with Single Spoke Resonator. Speaker: Mr. Rahul Gaur ,RRCAT
17:00-17:15	Study of wake-field and loss factor in $\beta_g=0.63$ and $\beta_g=0.8$ elliptic cavities for HEHIPA. Speakers: Mr. Alok Ghosh, BARC
17:15-17:30	Tuning Algorithm for Cure of Mode Mixing in an RFQ Linac. Speaker: Mr. Rahul Gaur, RRCAT
	n B2 (Main Hall, Auditorium)
Chair: Dr Mar	
16:30-16:45	Recent Trends in High Power Solid-State Amplifiers for Particle Accelerators. Speaker: Dr. Akhilesh Jain, RRCAT
16:45-17:00	200kV, 15mA High Voltage DC Power Supply Characterization. Speaker: $Mr.\ Amal\ S.,\ IPR$
17:00-17:15	Development & Commissioning of 150 KW RF Amplifier for K130 RTC. Speaker: Mr. Samares Kumar Manna, VECC
17:15-17:30	Design and development of ICVG disk resonator based 650 MHz strip line ferrite circulator for Proton Linac. Speaker: Mr. Manjeet Ahlawat, RRCAT
	n B3 (Seminar Hall, Auditorium)
	p Bandyophadyay 16:30-17:30
16:30-16:45	Closed Loop Control of Symmetrical Cockcroft-Walton High Voltage Generator. Speaker: Mr. Arka Mitra, BARC
16:45-17:00	Control System for first trial run of FDG production at DAE Medical Cyclotron Facility Kolkata. Speaker: Mr. Umashankar Panda, VECC
17:00-17:15	120 MSPS VME Based ADC Card for Digital BPI. Speaker: Mr. Rahul Rana, RRCAT
17:15-17:30	Development for Thermometry System for Quench Detection of 650 MHz Five Cell SCRF Cavity during Cold Test. Speaker: Mr. Anand Yadav, RRCAT
17:30-18:30	ISPA Meeting
18:30-18:45	End of Day 1, Buses to Hotels

Tuesday 19th November

Chair: Dr D k	on 2 (Main Hall, Auditorium) Kanjilal 9:00-11:00
9:00-9:30	Status and Progress of Fermilab's Proton Improvement Plan-II (PIP-II) Project. Speaker: Dr. Lia Merminga, FNAL
0:30-10:00	High Energy High Luminosity e ⁺ e ⁻ Collider using Energy- Recovery Linacs. Speaker: Dr. Vladimir Litvinenko, BNL
0:00-10:30	Overview of Accelerator Activities at BARC. Speaker: Dr. S. Krishnagopal, BARC
0:30-11:00	Medical Application from technologies in Particle Physics. Speaker: Dr. Archana Sharma, CERN
11:00-11:30	Tea
Plenary Sessio	on 3 (Main Hall, Auditorium)
Chair: Dr Lia	Merminga 11:30-13:00
11:30-12:00	Efforts in capacity building for development of pulsed proton accelerators on a long term perspective. Speaker: Shri P. Shrivastava, RRCAT
12:00-12:20	Commissioning Results of the 3 MeV LEHIPA RFQ Speaker: Dr. SVLS Rao, BARC
12:20-12:40	Design and Development of Low Beta 650 MHz Elliptic SCRF Cavity at VECC under IIFC collaboration Speaker: Mrs. Sudeshna Seth, VECC
12:40-13:00	ESCORT as next generation Hadron Therapy machine Speaker: Dr. Tanuja Dixit, SAMEER
13:00-14:00	Lunch
	on C1 (Main Hall, Auditorium)
14:00-14:15	p Bandyopadhyay 14:00-16:00 Design and Development of 1MV, 100kW Symmetrical Cockcroft-Walton generator for the Trombay DC Electron Accelerator for Waste Water Treatment Application. Speaker: Mr. D. K. Sharma, BARC
14:15-14:30	Study of Low Momentum Compaction Factor Optics and Its Implementation in Indus-2. Speaker: Mr. Abdurrahim, RRCAT
14:30-14:45	Design of 100 MeV Proton Accelerator for Radio-Isotope Production. Speaker: Dr. Shweta Roy, BARC
14:45-15:00	Studies on the Effect of RF power on the Plasma Potential of a 6.4 GHz ECR Ion Source. Speaker: Mrs. Mahuwa Bhattacharjee, VECC
15:00-15:15	Physics Design Studies for Accelerating Section of the 200 MeV Injector Linac for High Brilliance Synchrotron Radiation

	Speaker: Mrs. Parul Arora, RRCAT
15:15-15:30	Safety Aspects of Particle Accelerator Facilities in Indian
	Context. Speaker: Mr. R. K. Goyal, BARC
15:30-15:45	Mechanical Design, Fabrication & Assembly of Drift Tube
	Linac at IUAC, New Delhi. Speaker: Mr. Rajeev Ahuja, IUAC
	C2 (Seminar Hall, Auditorium)
Chair: Dr V S I	Pandit 14:00-16:00
14:00-14:15	Installation, Commissioning and Operational Experience of a 400kV Accelerator for Dual Ion Irradiation System. Speakers: Mr. Suresh K., IGCAR
14:15-14:30	Analytical Study of Buffer Gas Cooling of Ion Beams using Viscous Drag Model. Speaker: Dr. Paritosh Sing Babu, VECC
14:30-14:45	Architecture of LEHIPA Control System. Speaker: Mr. Sudheer Singh, BARC
14:45-15:00	Status of Compact Beam Diagnostic System for High Current
	Injector. Speaker: Dr. Rajesh Hariwal, IUAC
15:00-15:15	Development of Real Coded Genetic Algorithm based Optimization System for Performance Enhancement of Booster Synchrotron. Speaker: Mr. Surendra Yadav, RRCAT
15:15-15:30	UHV Performance Evaluation of Indigenously Developed Low
13.13-13.30	Conductance Uncoated Long Aluminium alloy Chamber for Undulator in Indus-2.
	Speaker: Mr. Shailesh Kumar Tiwari, RRCAT
15:30-15:45	Engineering Design and Finite Element Simulation of modified Dipole Chamber for Indus-2.
	Speaker: Mr. Digamber Yadav, RRCAT
	C3 (Seminar Hall, Laboratory Complex) nak Bandyopadhyay 14:00-16:00
14:00-14:15	Fast electron Angular Distribution from thin foil targets at Laser
	intensity 7x10^19 W/cm^2. Speaker: Mr. Tirtha Mandal, RRCAT
14:15-14:30	Quasi Mono-energetic Proton Acceleration from the Interaction of High Intensity Short Pulse Lasers with Thin Foil Target. Speaker: Mr. Mohammad Tayyab, RRCAT
14:30-14:45	Applications of Indigenously Developed 10 MeV RF Electron Linear Accelerator for Diverse Societal Fields. Speaker: Dr. Nishant Chaudhary, BARC
14:45-15:00	Four Years with XCAMS at IUAC, New Delhi: Status Report. Speaker: Mr. G. R. Umapathi, IUAC
15:00-15:15	Study of Direct Target Approach for the Production of 99Mo

Source.

	Using High Power Electron Accelerators.
	Speaker: Ms. Aqsa Shaikh, SAMEER
15:15-15:30	Preliminary Studies Towards Development of an Integrated 2 K Refrigeration System at BARC. Speaker: Dr. Anindya Chakravarty, BARC
15:30-15:45	Successful Fabrication of Horizontal Test Stand (HTS) Cryostats in Indian Industry for Testing 650 MHz SCRF Cavities. Speaker: Mr. R Ghosh, RRCAT
15:45-16:00	Status of Design and Development of High Beta 650 MHz Cryomodule at RRCAT. Speaker: Ankit Tiwari, RRCAT
16:00-16:30	Tea
Poster Session Sanjay Choksey, 16:30-18:00	1 (Lounge, Laboratory Complex) P N Prakash, V S Pandit, A Bandhyophadyay, Pitamber Singh
16:30-18:00	Paper ID's: 3, 4, 7, 9, 12, 16, 17, 18, 19, 20, 21, 22, 23, 27, 35, 36, 40, 43, 47, 52, 53, 54, 58, 59, 61, 69, 71, 72, 76, 77, 79, 84, 88, 89, 99, 105, 107, 108, 114, 120, 121, 123, 128, 134, 135, 137, 138, 141, 144, 145, 147, 152, 153, 164, 170, 171, 174, 175, 178, 182, 189, 190, 193, 195, 196, 198, 199, 202, 203, 204, 205, 211, 217, 222, 223, 227, 228, 231, 232, 233, 234, 235, 237, 243, 244, 245, 251, 253, 254, 255, 257, 260, 261, 264, 265, 267, 268, 269, 277, 279, 281, 286, 288, 289, 295, 302, 308, 314, 319, 320, 325, 328, 330, 332, 336, 347 & 353
	ations (Seminar Hall, Auditorium) Dr S Krishnagopal 17:00-18:00
17:00-17:30	Studies on Ion Acceleration in Ultrashort Ultra-high Intensity Laser Matter Interaction. Speaker: Mohammad Tayyab, RRCAT
17:30-18:00	Laser Driven Plasma Based Electron Acceleration, Applicable Acceleration Mechanisms and its Applications. Speaker: Dipanjana Hazra, HBNI
19:00-20:00	Cultural program (Main Hall, Auditorium)
20:00-22:00	Director's Dinner (IUAC Football Ground)
22:00-22:15	End of Day 2, Buses to Hotels

Wednesday 20thNovember

Plenary Sessio Chair: Dr S K	on 4 (Main Hall, Auditorium) Arishnagopal 9:00-11:00
9:00-9:30	Overview of IUAC Accelerator Facilities Speaker: Prof. A. C. Pandey, Director, IUAC
9:30-10:00	Overview of the Accelerator Activities in VECC Speaker: Dr. Sumit Som, VECC
10:00-10:30	Overview of High Power Microwave and Accelerator Activities at SAMEER Speaker: Dr. Sulabha Ranade, SAMEER
10:30-11:00	Status of Indus 1 & Indus 2Synchrotron Radiation Sources at RRCAT Speaker: Shri A. C. Thakurta, RRCAT
11:00-11:30	Tea
Plenary Sessio Chair: Dr Arc	n 5 (Main Hall, Auditorium) hana Sharma 11:30-13:00
11:30-12:00	Status of the accelerator developments for RIB project at VECC Kolkata Speaker Dr. Vaishali Naik, VECC
12:00-12:20	High Power Radio Frequency (HPRF) Activities at BARC for Normal and Superconducting Accelerators Speaker Dr. Manjiri Pande, BARC
12:20-12:40	Development of Dual Mode Medical Linear Accelerator at SAMEER Speaker Shri Sanjay Pethe, SAMEER
12:40-13:00	Status of High Current Injector Project at IUAC Speaker: Dr. Ajithkumar B. P., IUAC
13:00-14:00	Lunch
	on D1 (Main Hall, Auditorium) njay Malhotra 14:00-16:00
14:00-14:15	Design and Development of High Current Electron Gun for Linear Accelerator. Ms. Shreya Sarkar, BARC
14:15-14:30	Experiments on a Gridded Ion Source for Applications in Ion Thrusters. Speaker: Dr. Sanjeev Kumar Sharma (IPR)
14:30-14:45	Operation & characterization of ECR ion source beam in LEHIPA. Speaker: Mr. Hitesh Kewlani, BARC
14:45-15:00	Design, Development and Commissioning of Permanent Magnet Based Variable Field Dipole for BL-11, INDUS-II at RRCAT.

	Speaker: Ms. Elina Mishra, BARC
15:00-15:15	Development of Combined Function Harmonic Sextupole Magnets for Indus-2.
	Speaker: Mr. Sreeramulu K., RRCAT
15:15-15:30	Design, development & Qualification of beam line magnets for Delhi Light Source. Speaker: Mr. Vikas Teotia, BARC
15:30-15:45	Design of Low Level RF system hardware being developed for
13:30-13:43	Indian Accelerator program and PIP-II under IIFC project. Speaker: Mr. Shailesh Khole, BARC
15:45-16:00	Reference Phase Distribution scheme and Test Results for SSR1 under IIFC.
	Speaker: Mr. Afaash Mohammad, BARC
16:00-16:30	Tea
	2 (Lounge, Main Laboratory Complex) ad, Mainak Bandyophadyay, Mukesh Goyal, Ajithkumar, Vaishali Naik
Manjiri Pande, M La	
Manjiri Pande, M La 16:30-18:00	ad, Mainak Bandyophadyay, Mukesh Goyal, Ajithkumar, Vaishali Naik
Manjiri Pande, M La 16:30-18:00	ad, Mainak Bandyophadyay, Mukesh Goyal, Ajithkumar, Vaishali Naik Paper ID's:
Manjiri Pande, M La 16:30-18:00	Paper ID's: 5, 8, 26, 2 8, 29, 30, 34, 37, 38, 39, 41, 45, 48, 49, 50, 51, 57, 60, 63, 64, 65, 67, 68, 70, 73, 74, 75, 78, 80, 83, 86, 87, 90, 92, 94, 95, 96, 97, 98, 100, 101, 102, 104, 106, 109, 111, 117, 122,
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	Thursday 21 st November	
Plenary Session 6 (Main Hall, Auditorium) Chair: Dr Sumit Som 9:00-10:30		
9:00-9:30	Neutral Beam Injector: Present and Future. Speaker: Dr. Mainak Bandyopadhyay, IPR	
9:30-10:00	Utilization of electron accelerators in BARC Speaker: Shri R. K. Rajawat, BARC	
10:00-10:30	Accelerator Magnets Speaker: Dr. Sanjay Malhotra, BARC	
10:30-11:00	Tea	
Plenary Sessio Chair: Dr R B	on 7 (Main Hall, Auditorium) K Bhandari 11:00-12:00	
11:00 11:20	Indigenously developed high temperature superconducting steering magnet for K500 cyclotron Speaker: Dr. Uttam Bhunia, VECC	
11:20-11:40	Commissioning of the Compact FEL-THz Facility at IUAC Speaker: Dr. S. Ghosh, IUAC	
11:40-12:00	Cryogenics Activities at BARC for Superconducting Accelerators Speaker: Dr. Mukesh Goyal, BARC	
12:00-13:00	Concluding Session (Chair: Dr P N Prakash) (Feedback and Prize Distribution) Main Hall, Maharshi Kanad Auditorium	
13:00-14:00	Lunch	
14:15	Buses to Hotels	