



## 25<sup>th</sup> International Workshop on ELECTRON CYCLOTRON RESONANCE ION SOURCES 2022

Day - 1 [W	ednesday, 12	October,	2022]
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08:00-09:00	Registration	
09:00-10:00	Inaugural Function	
10:00-10:40	Keynote Talk - 1: Status of technology development for pulsed ion/proton accelerators at RRCAT  Purushottam Shrivastava, RRCAT	
10:40-11:10	High Tea	
Technical Session – 1		
11:10-11:50	Keynote Talk - 2: The never ending story of ECR Ion Sources Thomas Thuiller, LPSC	
11:50-12:30	Keynote Talk - 3: ECR ion sources for stable and rare isotope beams - an overview Vaishali Naik, VECC	
12:30-13:05	Invited Talk - 1 by Arun Chackrabotry, IPR	
13:05-14:00	Lunch	
Technical Session – 2		
14:00-14:20	Oral Presentation – 1: Recent development of FRIB 28 GHz ECR ion source . Junwei Guo, FRIB	
14:20-14:40	Oral Presentation – 2: A novel hybrid discharge mode of a miniaturized micro-wave ion source Shixiang Peng, Peking University	
14:40-15:00	Oral Presentation - 3: Status of FECR Ion Source Liangting Sun, IMP	
15:00-15:20	Oral Presentation – 4: Effect of the B-minimum field tuning on beam output and on the plasma at the Atomki 14 GHz ECR ion source Richard Racz, ATOMKI	
15:20-15:40	Oral Presentation – 5: Overview of the latest results at GISMO facility Vadim Skalyga, IAP RAS	
15:40-16:00	Tea Break	
Technical Session – 3		
16:00-16:20	Oral Presentation – 6: Recent Developments in the Production of Metallic Ion Beams at GSI Fabio Maimone, GSI	
16:20-16:40	Oral Presentation – 7: ASTERICS, a new 28 GHz electron cyclotron resonance ion source for the SPIRAL2 accelerator Thomas Thuillier, LPSC	
16:40-17:00	Oral Presentation – 8: A compact 2.45GHz permanent magnet ECR bipolar ion source for Tandem accelerators Arun Annaluru, HVE	
17:00-17:20	Oral Presentation – 9: Development of 2.45 GHz ECR Ion Sources at IPR Rajesh Kumar, IPR	
17:20-17:30	Evening Tea	
Poster Session - 1		
17:20-19:20	Poster Category NDSR, FPPS & NCNG	
19:20-Onwards	Director Dinner	

Technical Session - 4	
10011111041100001011 4	Invited Talk - 2: ECR/Microwave Ion Sources: Status and
09:15-09:50	Developments in India
	G. Rodrigues, IUAC
09:50-10:25	Invited Talk - 3: ECR based low energy ion accelerator at
	TIFR and application to molecular sciences
	Lokesh Tribedi, TIFR
10:25-10:45	Oral Presentation – 10: Experimental application of a TWTA
	to the SPIRAL1 charge breeder
	Laurent Maunoury, GANIL
	Oral Presentation – 11: Injection And Trapping of 1+ Ions In
10:45-11:05	6.4 GHz ECR Charge Breeder
	Paritosh Sing Babu, VECC
11:05-11:20	Tea Break
Technical Session - 5	
	Oral Presentation – 12: Design of a vacuum chamber for the
11:20-11:40	gasdynamic ion source with high specific energy input
	Ivan Izotov, IAP RAS
	Oral Presentation – 13: High Stability and Low Emittance
	Microwave Discharge Ion Sources Magnetic Configuration
11:40-12:00	and Ion Source Simulation Tool Development
	Lorenzo Neri, INFN
	Oral Presentation – 14: Design and Development of Novel
12:00-12:20	Waveguide Break for 14.45 GHz ECR Ion Source at VECC
	Anuraag Misra, VECC
	Oral Presentation - 15: 223Ra Ion Beam Production from
12:20-12:40	ECR2 at the Argonne Tandem Linac Accelerator System
	Jake McLain, Argonne National Laboratory
10.40.10.00	Oral Presentation – 16: An experimental study of afterglow
12:40-13:00	mode on SECRAL-II ion source
	<b>Jibo Li,</b> IMP, CAS
13:00-14:00	Lunch
Technical Session – 6	
	Oral Presentation - 17: RF-induced losses of hot electrons
14:00-14:20	from the ECR plasma
	Elena Kiseleva, IAP RAS
	Oral Presentation – 18: Studies on the electron energy
14.00 14.40	distributions in the 18 GHz High Temperature
14:20-14:40	Superconducting ECR Ion Source
	Lakshmy PS, IUAC
	Oral Presentation - 19: A multi-cusp ECR plasma source for
14:40-15:00	high intensity accelerators
	Monika Phogat, BARC
15:00-15:20	Oral Presentation – 20: Interplay among cavity modes in a
	microwave ion source influencing the plasma dynamics
	and the extracted ion beam
	Chinmoy Mallick, IPR
15:20-15:40	Important activities of BRNS
	Hemant Prakash, BRNS, DAE
15:40-16:00	Tea Break

EGRIS-2022

## Day - 3 [Friday, 14 October, 2022]

Technical Session - 7		
09:15-09:35	Oral Presentation – 21: Applications of an indigenously developed Compact ECR Plasma Source [CEPS] at IIT Delhi Ramesh Narayanan, IIT Delhi	
09:35-09:55	Oral Presentation – 22: Ion-beam-induced astrochemistry: a new application of the Atomki-ECRIS Rahul Kumar Kushwaha, ATOMKI	
09:55-10:15	Oral Presentation – 23: ECR ion Source proton fraction measurement and enhancement of it in LEHIPA Hitesh Kewlani, BARC	
10:15-10:35	Oral Presentation – 24: Production of intense carbon beams with permanent magnet ECR ion sources Jiaqing Li, IMP	
10:35-10:50	Tea Break	
Technical Session - 8		
10:50-11:10	Oral Presentation – 25: First results from the gas jet coupled 2.45 GHz ECRIS for online radioactive ion beam production at VECC RIB facility  Mahuwa Bhattacharjee, VECC	
11:10-11:30	Oral Presentation – 26: Status of ECR Plasma Electron-Ion Numerical Modelling at INFN-LNS – From Space-Resolved Population Kinetics to X-Ray Emissivity Analysis Bharat Mishra, INFN	
11:30-11:50	Oral Presentation – 27: Modelling of ECR heating in an ECRIS with axis-symmetric magnetic topology Arpan Khandelwal, GANIL	
Poster Session - 2		
11:50-13:20	Poster Category AND, SM, RIB, BET	
13:20-14:20	Lunch	
14:20-15:00	Concluding Session	
15:00-Onwards	Excursion	

Keynote address	35+5 min
Invited talk in conference	30+5 min
Oral presentation in conference	18+2 min
Poster Presentation Dimension	Portrait – A0 (84 x 119 cm) size

