

ORAL SESSION 1 - Monday 9:20-11:00

co-chair: Valeria CANDELORO

chairperson: Gianluigi SERIANNI

94	The BO2022 project. For a history of students and graduates of the University of Padova (1222- 20th century)	Cristina La Rocca	Tutorial	Italy	IN PERSON
87	Fundamental processes related to negative ion production of different ion species	Mamiko Sasao	Tutorial	Japan	IN PERSON
	RF (Light) Negative Ion Sources for Non-Fusion Applications, a tutorial	Martin Stockli	Tutorial	USA	IN PERSON

ORAL SESSION 2 - Monday 11:20-13:10

co-chair: Isabella MARIO

chairperson: Haruhisa NAKANO

95	A review of the NIFS negative-ion based NBI driven with Filament-Arc (FA) discharge	Katsuyoshi Tsumori	Tutorial	Japan	IN PERSON
84	The ITER Neutral Beam Test Facility: status and perspectives	Vanni Toigo	Oral	Italy	IN PERSON
70	Towards low divergence beams for the ITER neutral beam injection system	Pierluigi Veltri	Oral	France	IN PERSON
69	A Method of Confirming the Operation of Active Magnetic Compensation Coils on the ITER HNBs	Jamie Zacks	Short oral	France	IN PERSON

ORAL SESSION 3 - Monday 14:10-17:10

co-chair: Monica SPOLAORE

chairperson: Katsuyoshi TSUMORI

4	Ultra-low work function of caesiated surfaces and impact of specific hydrogen plasma species	Adrian Heiler	Oral	Germany	IN PERSON
12	Mach probe diagnostic for determining positive ion fluxes in H ⁺ ion sources	Vinzenz Wolf	Short oral	Germany	IN PERSON
36	Effect due to Cs injection upon the beam current oscillation extracted from the J-PARC negative hydrogen ion source	Motoi Wada	Short oral	Japan	REMOTE
25	Photoelectric current measurement of plasma grid materials for a compact H-ion source	Mayuko Nishiwaki	Oral	Japan	IN PERSON
54	Exploring Cesium and H- beam properties internal to the LANSCE H- Ion Source using Resonant Absorption Spectroscopy and Cavity Ring Down Spectroscopy	David Kleijan	Short oral	USA	IN PERSON

ORAL SESSION 4 -Tuesday 8:30-10:30

co-chair: Diego MARCUZZI

chairperson

Martin STOCKLI

59	Paving the road towards ITER relevant long deuterium pulses at ELISE by investigating improved operational scenarios	Dirk Wunderlich	Oral	Germany	IN PERSON
68	The negative beam source with single driver for CRAFT NNBI: design and conditioning results	yahong xie	Oral	China	REMOTE
46	THE 1MV MITICA POWER SUPPLY BEYOND THE MODERN TECHNOLOGICAL LIMITS: FIRST EXPERIENCE DURING INTEGRATION PHASE	Marco Boldrin	Oral	Italy	IN PERSON
6	First H- Beam Extracted from the Non-Caesiated External RF-Coil Ion Source at ISIS	Scott Lawrie	Short oral	United Kingdom	IN PERSON

ORAL SESSION 5 -Tuesday 10:50-13:00

co-chair: Marco CAVENAGO

chairperson

Dan FAIRCLOTH

3	Numerical study of RF power coupling in fusion-relevant single- and multi-driver H ⁻ ion sources	Dom inikus Zielke	Oral	Germany	IN PERSON
7	Simplified fluid models of radiofrequency and plasma density for NIO1 and design	Marco Cavenago	Oral	Italy	IN PERSON
52	Investigation of spatially resolved plasma parameter and potential distributions at the BATMAN Upgrade ion source	Stefan Briefi	Oral	Germany	IN PERSON
80	Construction of a Filament-RF driven hybrid negative ion source at NIFS	Katsuyoshi Tsumori	Oral	Japan	IN PERSON

ORAL SESSION 6 -Tuesday 14:30-16:30

co-chair: Emanuele SARTORI

chairperson

Gwenael FUBIANI

	RF negative ion sources for fusion	Ursel Fantz	Tutorial	Germany	IN PERSON
74	Negative and positive ion density in front of negative ion production surface in large-scaled negative ion source for fusion	Haruhisa Nakano	Oral	Japan	IN PERSON
11	Key parameters for the ion velocity distribution at the plasma meniscus of a caesiated negative ion source	Antonio Pimazzoni	Oral	Italy	IN PERSON

ORAL SESSION 7 -Wednesday 8:30-10:30

co-chair: Barbara ZANIOL

chairperson

Ursel FANTZ

49	Source Performance Optimization in Cesium Mode in ROBIN	Kaushal Pandya	Oral	India	IN PERSON
72	Plasma emission monitored via optical emission spectroscopy during the Cs conditioning at SPIDER	Isabella Mario	Short oral	Italy	IN PERSON
82	Experimental results of the SPIDER negative ion accelerator in view of the next operations	emanuele sartori	Oral	Italy	IN PERSON
73	Progress in the development of negative ion beam source in Korea	Min Park	Short oral	South Korea	IN PERSON

ORAL SESSION 8 -Wednesday 10:50-12:50

co-chair: Margherita UGOLETTI

chairperson

Mamiko SASAO

15	120 mA Operation of J-PARC Cesium RF-Driven H ⁻ Ion Source	Akira UENO	Oral	Japan	REMOTE
66	Over 7200 hours commissioning of RF-driven negative hydrogen ion source developed at CSNS	Weidong Chen	Oral	China	REMOTE
24	Discoloration of RF antenna coil surface after long-term operation of J-PARC ion source	Takanori Shibata	Short oral	Japan	REMOTE
50	Correlation H ⁻ beam properties to Cs-coverage	Jacques Lettry	Oral	Switzerland	IN PERSON

ORAL SESSION 9 -Wednesday 14:20-16:50

co-chair: Roman ZAGORSKY

chairperson

Dirk WÜNDERLICH

5	Caesium Balance of the ISIS H ⁻ Penning Ion Source in Long Pulse Operation	Olli Tarvainen	Oral	United Kingdom	IN PERSON
48	Plasma Electrode Materials for Cs-free Negative hydrogen ion Sources	Mamiko Sasao	Oral	Japan	IN PERSON
86	The effect of oxygen impurities on a caesium-covered Mo(001) surface: insights from Molecular Dynamics simulations for negative ion sources.	MARIA RUTIGUANO	Oral	Italy	IN PERSON
37	Rotational and vibrational temperatures of Hydrogen nonequilibrium plasmas from Fulcher band emission spectra	Domenico Bruno	Oral	Italy	IN PERSON
27	Development and Commissioning of a Hydrogen Ion Source for the CERN ALPH	Mark Johnson	Short oral	United Kingdom	REMOTE

ORAL SESSION 10 -Wednesday 17:10-19:10

co-chair: Roberto PASQUALOTTO

chairperson

Jacques LETTRY

42	Operation and Research Activities on the Three H ⁻ Injector Systems at the Spallation Neutron Source	Baoxi Han	Oral	United States	IN PERSON
1	An H ⁻ Surface Plasma Source for the ESS Storage Ring	vadim dudnikov	Short oral	United States	REMOTE
23	Recent H ⁻ ion source research and development at the Oak Ridge National Laboratory	Rob Welton	Oral	United States	IN PERSON
58	Increasing the H ⁻ output current and Reducing Performance Variations of the SNS H ⁻ Source	Martin Stockli	Oral	United States	IN PERSON

ORAL SESSION 11 -Friday 8:30-10:30

co-chair: Valeria CANDELORO

chairperson

Pierluigi VELTRI

10	Repercussions of the magnetic filter field and the extraction aperture configurations on the negative ion beam properties: insights from a Particle-In-Cell model.	gwenael fubiani	Oral	France	IN PERSON
8	Study of plasma meniscus including the surface produced negative ions by using PIC-MCC simulation	Kenji Miyamoto	Oral	Japan	REMOTE
14	Dynamic responses of negative ion meniscus to externally applied RF field	Kenichi Nagaoka	Oral	Japan	REMOTE
56	BATMAN Upgrade: general results from beam optics studies	Christian Wimmer	Oral	Germany	IN PERSON

ORAL SESSION 12 -Friday 10:50-12:50

co-chair: Giuseppe CHITARIN

chairperson

Olli TARVAINEN

40	Utilization of Compact ECR plasma source for large area H ⁻ ion production	Shweta Sharma	Oral	India	IN PERSON
41	Experimental Characterization and Theoretical Studies of ECR Produced Hydrogen Plasma Ion Beams	RAMESH NARAYANAN	Oral	India	IN PERSON
2	Photo-assisted Cl ⁻ , Br ⁻ and I ⁻ production in cesium sputter ion source	Akbar Hossain	Oral	Finland	IN PERSON
20	Simple beam energy recovery as alternative to Residual Ion dump in Neutral Ion Beam Injections	Vincenzo Variale	Oral	Italy	IN PERSON