

PROGRAM
of the 10-th International Symposium on Production and Neutralization of Negative
Ions and Beams

September 14, 2004

		Opening of the Symposium	9-00 – 9-20
		Session 1, 9-20 – 10-25, Chair V. Antoni	
1	R.Hemsworth	Development of the Long Pulse Negative Ion Source for ITER	9-20 – 9-55
2	O.Kaneko	Status of Negative-Ion-Based Neutral Beam Injectors in LHD	9-55 – 10-25
		Coffee break	10-25 – 10-55
		Session 1, 10-55 – 12-55, Chair R. Hemsworth	
3	L.Svensson	Experimental Results with the New ITER-like 1 MV SINGAP Accelerator	10-55 – 11-25
4	O.Fukumasa	Report title to be determined	11-25 – 11-55
5	K.Tsumori	Correction of Beam Distortion in Negative Hydrogen Ion Source with Multi-Slot Grounded Grid	11-55 – 12-25
6	Y.Oka, Yu.Belchenko, V.Davydenko, K.Ikeda, O.Kaneko, K.Nagaoka, M.Osakabe, Y.Takeiri, K.Tsumori, E.Asano, T.Kawamoto, T.Kondou, and M.Satou	Plasma Injection from Several Cesium Hollow Cathodes into the 1/3rd Scale Large H- Ion Source	12-25 – 12-55
		Session 2, 14-30 – 16-00, Chair M. Bacal	
1	M.Capitelli	Progress in the Modeling of Negative Ion Sources	14-30 – 15-00
2	A.Laricchiuta	Progress in Elementary Processes for Negative Ion Source Modeling	15-00 – 15-30
3	T.Sakurabayashi, A.Hatayama and M.Bacal	Effects of a Weak Transverse Magnetic Field and a Spatial Potential on Negative Ion Transport in Negative Ion Sources	15-30 – 16-00

		Coffee break	16-00 – 16-30
	Session 2, 16-30 – 18-00, Chair Y. Belchenko		
4	K.Benmeziane	2D PIC-MCC Code for Electron-Hydrogen Gas Interaction Study in H- Ion Sources	16-30 – 17-00
5	V.Dudnikov	Relevance of Volume and Surface-Plasma Formation of Negative Ion in Gas Discharge Ion Sources	17-00 – 17-30
6	J.Dietrich and R.Becker	Separation of H- Ions and Co-extracted Electrons at Full Energy	17-30 – 18-00

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	Session 3, 9-00 – 10-30, Chair O. Kaneko		
1	M.Bacal, A.Ivanov Jr, C.Rouille, S.Bechu and J.Pelletier	ECR-driven Multicusp Volume H-Ion Source	9-00 – 9-30
2	V.Dudnikov	Peculiarities of Compact Surface-Plasma Sources Operation (Practical Aspects)	9-30 – 10-00
3	F.Baksht, V.Ivanov, S.Shkolnik and M.Bacal	Volume production of high negative hydrogen ion density in low-voltage cesium-hydrogen discharge	10-00 – 10-30
		Coffee break	10-30 – 11-00

	Session 3, 11-00 – 13-00, Chair M. Capitelli		
4	J.Peters	Finding the Optimum Frequency and the H- Distribution in the HERA RF Volume Ion Source	11-00 – 11-30
5	Yu.Kursanov, P.Litvinov and V.Baturin	H- Source with Volumetric - Plasma Formation of Ions	11-30 – 12-00
6	P.Litvinov and V.Baturin	Flash Chamber of a Quasi-Continuous Volume Source of Negative Ions	12-00 – 12-30
7	S.Moustaizis	Report title to be determined	12-30 – 13-00

Excursion (after lunch time)

General Discussion 20-00 – 21-30

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Session 4, 9-00 – 10-30, Chair R. Becker			
1	J.Sherman, G.Rouleau and E.Chacon-Golcher	Physical Insights and Test Stand Results for the LANSCE H- Surface Converter Source	9-00 – 9-30
2	C.Hill, D.Kuechler, R.Scrivens, and T.Steiner	H- Source Developments at CERN	9-30 – 10-00
3	Yu.Belchenko, I.Ivanov and I.Piunov	Study of Direct Current Negative Ion Source for the Medicine Accelerator	10-00 – 10-30
Coffee break			10-30 – 11-00
Session 4, 11-00 – 13-00, Chair J. Sherman			
4	G.Kuznetsov and M.Batazova	Source of Negative Hydrogen Ions with Hot Cathode	11-00 – 11-30
5	R.Gebel	Polarized Negative Light Ions at the Cooler Synchrotron COSY/Juelich	11-30 – 12-00
6	R.Gobin, K.Benmeziane, O.Delferriere, R.Ferdinand, A.Girard, and F.Harrault	Status of the Negative Hydrogen Ion Test Stand at CEA Saclay	12-00 – 12-30
7	M.Taniguchi	Acceleration of 100 A/m ² negative ion beam by vacuum Insulated beam source	12-30 – 13-00
Session 5, 14-30 – 16-00, Chair R. Gobin			
1	I.Soloshenko	Space Charge Lens for Focusing of Negative Ion Beams	14-30 – 15-00
2	V.Davydenko	Stripping Target of 2.5 MeV 10 mA Tandem Accelerator	15-00 – 15-30
3	D.Moehs	Sub Microsecond Electromagnetic Beam Notching at Low Energy Utilizing a Magnetron Ion Source with a Split Extractor	15-30 – 16-00
Coffee break			16-00 – 16-30
Session 5, 16-30 – 18-30, Chair D. Kuechler			
4	R.Becker	Mathematical Formulation and Numerical Modelling of the Extraction of Volume Produced H- Ions	16-30 – 17-00
5	R.Welton	Report title to be determined	17-00 – 17-30
6	V.Baturin and P.Litvinov	Neutralization of H- Ions on the Plasma Target	17-30 – 18-00
7	M.Hanada	Energy spectrum of atoms stripped from negative ions in a multi-stage negative ion accelerator	18-00 – 18-30
Closing of the Symposium			18-30 – 19-00