

**6th ST Workshop, US-Japan ST Workshop, US-Japan Workshop on Innovative High Beta Plasma Confinement
[19 – 21 November, 1999, Seattle, WA] -- Program**

E: Experimental T: Theory, D: Diagnostics R: Reactors and future ST / HBFPC designs or plans or issues
O: Oral P: Poster O & P: 15 min Oral + poster

Pap #	Author	Subject	Type	Affiliation	Country	Cat
01	M. Ono	Status of National Spherical Torus Experiment (NSTX)	O	PPPL	USA	E
02	R.D. Stambaugh	Research Requirements for an ST Fusion Development Facility	O	GA	USA	R
03	M.J. Schaffer	Evolution of Helicity Injected Plasmas in NSTX	P	GA	USA	T
04	C.P.C. Wong	ST Reactor Design as a Function of Aspect Ratio	O	GA	USA	R
05	L. Steinhauer	FRC test bed for high beta physics	O	U-Wash.	USA	T
06	R. Majeski	Recent results from and plans for CDX-U	O	PPPL	USA	E
07	F. Paoletti	Equilibrium & Stability of NSTX-upgrade and Future Performance Experiments	P	PPPL	USA	T
08a	F. Alladio	Ideal MHD stability of the PROTO-SPHERA configurations	P	Frascati	Italy	T
08b	F. Alladio	Status of PROTO-SPHERA project	O	Frascati	Italy	E
09	S. Goto	Summary of Past Activities and Near-Term Work in FIX-FRC	O	Osaka	Japan	E
10a	N. Conway	Energy Confinement studies in the START Spherical Tokamak	O	Culham	UK	E
10b	A. Sykes	Progress on MAST	O	Culham	UK	E
11a	G. Cunningham	Induction-compression in the Spherical Tokamak, a unified view	O	Culham	UK	E
11b	G. Cunningham	A new interferometer for MAST, design and performance	P	Culham	UK	D
11c	G. Cunningham	A precision cavity polarimeter for ST, a proposal	P	Culham	UK	D
12	S. Yoshimura	Excitation of Alfvén Wave in FIX-FRC Plasma	O	Osaka-U	Japan	E
13	D. Brennan	Origin of the n=1 Mode in Spheromaks and STs with Helicity Injection	O	U-Manch.	UK	T

14	Y. Takase	Initial Results from the TST-2 Spherical Tokamak	O	U-Tokyo	Japan	E
15	S. Shiraiwa	Magnetic Measurements on TST-2	P	U-Tokyo	Japan	D
16	N. Amemiya	3D MHD simulation of helicity injection current drive in a low aspect ratio torus	P	Yokohama-U	Japan	T
17	M. Ohnishi	Evolution of Field Reversed Configuration Plasma with Rotating Magnetic Field CD	O	Osaka-U	Japan	T
18	M. Inomoto	Recent Progress in TS-3/4 ST Merging Experiments	O	U-Tokyo	Japan	E
19	A. Hoshikawa	Excitation of n=1 Mode in Field-Reversed Configuration	O	Nihon-U	Japan	E
20	Y. Narushima	Vertical Displacement of a Highly Elongated Low Aspect Ratio Tokamak	P	Nihon-U	Japan	E
21	Y. Kagei	Feasibility Study of Superconducting Center Conductor in ST Reactors	O	Yokohama-U	Japan	R
22	Y. Ono	Stability of Oblate FRCs and their OH Current-Drive in the TS-3 Merging Expt.	O	Tokyo-U	Japan	E
23	N. Iwasawa	Stability Property of Field Reversed Configuration	O	Niigata-U	Japan	T
24	W.A. Cooper	Quasiasymmetry in a Spherical Tokamak	O	CRPP-Laus.	Switzer.	T
25	M.C.R.Andrade	Self-Consistent Equilibrium Calculation in the ETE Small Aspect Ratio Tokamak	O	INPE-Brazil	Brazil	T
26	A.K.Ram	Electron Cyclotron Heating and Current Drive in Spherical Tokamaks	O	MIT	USA	T
27	T.R. Jarboe	Steady Inductive Helicity Injection Current Drive	O	U-Wash.	USA	T
28	G.O.Ludwig	Progress of the ETE Spherical Torus Experiment	O	INPE-Brazil	Brazil	E
29	R. Kaita	Status and Future Plans for NSTX Diagnostics	O	PPPL	USA	D
30	J. Menard	Volt-second consumption during initial operation of NSTX	O & P	PPPL	USA	E
31	T. Hayashi	Dynamics of relaxation phenomena in a Spherical Tokamak	O	NIFS	Japan	T
32	S. Woodruff	First results from the Sustained Spheromak Physics Experiment, SSPX	P	LLNL	USA	E
33	M. Nagata	Studies of Helicity Injection Current Drive in HIST	O	Himeji - U	Japan	E
34	H. Wilson	Demonstrating the Physics Basis for Conceptual ST Power Plant Designs	O	Culham	UK	R
35	A.L. Hoffman	Rotating Magnetic Field Current Drive of FRCs and the TCS Experiment	O	U-Wash.	USA	T
36	A. Redd	Diagnosis and Control of Internal Reconnection Events (IREs) in the HIT-II ST	O	U-Wash.	USA	E
37	M. Gryaznevich	Beta limits and ITB in conventional and spherical tokamaks	O	Culham	UK	T
38	N.J. Conway	Ion confinement and heating in the START tokamak	P	Culham	UK	E
39	E.V. Belova	Numerical Study of Global Stability of Field-Reversed Configurations	O	PPPL	USA	T
40	D.S. Darrow	Neutral Beam Ion Loss Modeling for NSTX Plasmas	O & P	PPPL	USA	T
41	S.M. Kaye	Overview of First Physics Results from NSTX	O	PPPL	USA	E
42	H. Kugel	NSTX Experiments on Impurity Control and Wall Conditioning	O & P	PPPL	USA	E

43	T.K. Mau	HHFW Heating and Current Drive Modeling for NSTX	P	UCSD	USA	T
44a	R. Raman	Coaxial Helicity Injection current drive experiments on NSTX	P	U-Wash.	USA	E
44b	R. Raman	CHI Injector Impedance in the HIT-II Experiment	P	U-Wash.	USA	E
45	P. Jewell	Density Observations in HIT-II Using a Tangentially Viewing Interferometer	P	U-Wash.	USA	D
46	J. Liptac	Multi-Point Thomson Scattering Diagnostic for the Helicity Injected Torus	P	U-Wash.	USA	D
47	S. Sabbagh	Investigation of the Initial NSTX Experimental Plasma Equilibria	O & P	Columbia-U	USA	T
48	B.A. Nelson	Overview of The Helicity Injected Torus Program	O	U-Wash.	USA	E
49	K. McCollam	Current Drive in the Helicity Injected Torus-II (HIT-II)	P	U-Wash.	USA	T
50	R. Fonck	Status and Plans for the PEGASUS Toroidal Experiment	O	U-Wisc.	USA	E
51	D. Gates	Initial operation of NSTX with plasma control	O & P	PPPL	USA	E
52	S. Jardin	Noninductive Current Buildup in a Spherical Tokamak	O	PPPL	USA	T
53	A.L. Roquemore	NSTX Diagnostic set for High power Auxiliary Heated Plasmas	P	PPPL	USA	D
54	H. Ji	The Proposed SPIRIT Device and Promising Regimes for Stable FRC Plasmas	O	PPPL	USA	E
55	T. Intrator	Modeling High Density Field Reversed Configurations	O	LANL	USA	T
56	J. Slough	Flux generation & sustainment of FRC with RMF Current Drive	O	U-Wash.	USA	E
57	T. Matsuyama	Current drive of FRC by Ohmic Coil and Equilibrium Field Coil	P	U-Tokyo	Japan	E
58	S. Shimamura	Sustainment of a ST by High Repetition Rate Injection of Compact Torus Plasma	P	Nihon-U	Japan	E
59	Y. Ueda	Comparative Study of ST in the TS-3/4 Experiments	O	U-Tokyo	Japan	E