

# NSTX Results Review 2004, Sep 20-21

\* indicates a presentation to be made remotely

First Author		Title	Slot	Time
<b>Monday 9/20, morning: Introduction, MHD, Diagnostics</b>				
		<b>Welcome, introduction</b>	0:15	8:45
Gates, D.		High normalized current	0:15	9:00
Menard, J.		Locked mode thresholds and EFA with applied error fields	0:15	9:15
Sabbagh, S.		RWM experiments	0:20	9:30
Zhu, W.	CU	Toroidal Rotation Damping Physics in NSTX	0:15	9:50
Sontag, A.	CU	Resistive Wall Mode Stabilization of High Beta NSTX Plasmas	0:15	10:05
Fredrickson, E.		Results from NTM and kinetic instability experiments	0:15	10:20
* Ruskov, E.	UCI	Suppression of frequency chirping by HHFW Heating of Beam Ions	0:15	10:35
Gorelenkov, N.		Modeling of Low-frequency MHD-induced Beam-ion Transport	0:15	10:50
		<b>Break</b>	0:15	11:05
Levinton, F.	Nova	Initial Results from the Motional Stark Effect Diagnostic	0:25	11:20
Stratton, B.		Initial results from the fast soft x-ray camera	0:15	11:45
Delgado-Aparicio, L.	JHU	'Multi-color' optical soft X-ray arrays for MHD and transport diagnostics	0:15	12:00
Menard, J.		Status of error field determination on NSTX	0:15	12:15
		<b>Lunch</b>	1:15	12:30
<b>Monday 9/20, afternoon: RF and Startup Experiments</b>				
Raman, R.	UWa	Initial results from transient CHI startup in NSTX	0:20	13:45
Menard, J.		Solenoid-free inductive startup with HHFW pre-ionization	0:20	14:05
Schaffer, M.	GA	Physically rigorous formulation of magnetic helicity and its evolution	0:15	14:25
Wilson, J.R.		RF Operations & Power Deposition Studies	0:20	14:40
* Ryan, P.	ORNL	HHFW Current Drive, RF-Only H-Modes and HHFW+NBI	0:20	15:00
		<b>Break</b>	0:15	15:20
Biewer, T.M.		Edge Ion Heating by Launched High Harmonic Fast Waves in NSTX	0:15	15:35
Diem, S.		Evidence of Parametric Decay during HHFW Heating on NSTX	0:15	15:50
Mau, T.K.	UCSD	Status of CURRAY Integration into TRANSP	0:15	16:05
Harvey, R.	Comp-X	Hot Plasma Ray Tracing of HHFW	0:15	16:20
Taylor, G.		EBW Emission Measurements	0:15	16:35
Ram, A.K.	MIT	Relativistic effects in electron Bernstein wave heating and current drive	0:15	16:50
Harvey, R.	Comp-X	EBW-Bootstrap Current Synergy	0:15	17:05
		<b>End of session</b>		17:20

## NSTX Results Review 2004, Sep 20-21 (cont.)

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	First Author	Inst.	Title	Slot	Time
<b>Tuesday 9/21, morning: Transport &amp; turbulence, Senario development, Operations</b>					
	Bell, M.		Confinement analysis	0:15	8:30
	Kaye, S.		Confinement Scaling	0:15	8:45
	Stutman, D.	JHU	Assessment of electron thermal transport dynamics and its origins on NSTX	0:15	9:00
	Lee, K.C.	UCD	Boundary Density Fluctuation Measurement by FIRETIP	0:15	9:15
	Bush, C.	ORNL	Impurity Flow, Turbulence and Behavior of the Edge Plasma of NSTX	0:15	9:30
	Darrow, D.		Pitch angle resolved measurements of neutral beam ion loss from NSTX	0:15	9:45
	Medley, S.		Measurements of the fast ion spectrum in NSTX	0:15	10:00
	Peng, Y-K.M.	ORNL	Preliminary results of the momentum scan, iITB identity study with MAST	0:15	10:15
	Mikkelson, D.		Gyrokinetic simulations of turbulence in NSTX	0:15	10:30
	Redi, M.H.		Tearing Parity Microturbulent Drift Modes on NSTX	0:15	10:45
	TBD		Turbulence Radial Correlation Length Measurements in the Core of NSTX	0:15	11:00
			<b>Break</b>	0:15	11:15
	Gates, D.		Long-pulse double-null discharges	0:15	11:30
	Menard, J.		Performance of early H-mode PF1B LSN discharges	0:15	11:45
	Maingi, R.	ORNL	H-modes with the shoulder gas injector	0:15	12:00
	Stevenson, T.		Real-time equilibrium reconstruction and isoflux control of plasma shape	0:15	12:15
	Walker, M.	GA	Modeling the NSTX plasma control system	0:15	12:30
			<b>Lunch</b>	1:00	12:45
<b>Tuesday 9/21, afternoon: Boundary physics</b>					
	Kugel, H.		Development of particle control for NSTX	0:15	13:45
	Kugel, H.		Initial NSTX Lithium Pellet Injection	0:15	14:00
	Soukhanovskii, V.	LLNL	Supersonic gas jet for fueling and diagnostic applications on NSTX	0:15	14:15
	Paul, S.		Power balance accounting for neutral-beam heated H-mode plasmas in NSTX	0:15	14:30
	Soukhanovskii, V.	LLNL	Divertor regimes in NSTX	0:15	14:45
	Boedo, J.	UCSD	Results from the fast reciprocating probe	0:15	15:00
			<b>Break</b>	0:15	15:15
	Biewer, T.M.		Dependence of edge flow on magnetic configuration	0:15	15:30
	Maingi, R.	ORNL	L-H transition physics	0:15	15:45
	Zweben, S.		GPI measurement of L-H transition	0:15	16:00
	Myra, J.	Lodestar	Theory and modeling of blobs and gas-puff-imaging experiments	0:15	16:15
	Maingi, R.	ORNL	ELMs in NSTX	0:15	16:30
	Tritz, K.	JHU	Characterizing ELMs and their effects using multi-color USXR imaging	0:15	16:45
	Roquemore, A.L.		Applications of the Photron camera to turbulence and ELMS in the divertor	0:15	17:00
	Pigarov, A.	UCSD	Results of multifluid simulations of NSTX far-SOL transport	0:15	17:15
*	Umansky, M.	LLNL	BOUT modeling of edge turbulence in NSTX	0:15	17:30
	Skinner, C.		Deposition measurements in NSTX	0:15	17:45
			<b>End of Results Review</b>		18:00