28th Workshop on MHD Stability Control					
ID	Start	End	Thursday 10/3	Friday 10/4	Saturday 10/5
Reception	8:30	9:00	Yang	Kostadinova	Kostadinova
Morning #1	9:00		Berkery	Dudkovskaia (R)	Boozer
			Wong	Benjamin	Guazzotto
			Pankin	Hanson (R)	Elster
		10:30	Takemura	Boyes	Reiman (R)
Coffee #1	10:30	11:00			
Morning #2	11:00		Myers	Rothstein	Yang
			Turco (R)	Benedett	All
			Barada	Van Mulders	
		12:30	Jiang	Xie	
Lunch	12:30	14:00	<u> </u>		
Afternoon #1	14:00		Hurst	Poster / Tour	Adjourn
			Orlov		,
			Chandra		
		15:30	Levesque		
Coffee #2	15:30	16:00	20100400		
Afternoon #2	16:00	20.00	Sabbagh	1	
/ telliloon	10.00		Tobin		
			Buston Ramirez		
		17:30	Lee		
			burn, Alabama: October 3	R-5 2024	
Invited talks	22 minutes	Uninterrupte		7-3, 2024	
Contributed talks	14 minutes	Uninterrupte			
Discussions		•		na auestions	
Reception	26 minutes On all previous talks, including clarifying questions 30 minutes Talks from the organizers with light breakfast served in the back of the room				
Lunch	90 minutes		to get free lunch from the		K OF THE FOOTH
Lunch	90 minutes	_	III be served on Saturday	e careteria on weekdays	
		LUTTETT BOX WI			
Session title	Talk title			Chair	Assistant chair
Session #1-1	Talk title	10:30		Chair	Assistant chair
Session #1-1	9:00	10:30	Thursday	Levesque	Assistant chair Yang
Session #1-1 Berkery	9:00 Stability Cor	nsiderations fo	<b>Thursday</b> or a Spherical Tokamak Ac	Levesque dvanced Reactor	Yang
Session #1-1 Berkery Wong	9:00 Stability Cor Fishbone Ins	nsiderations fo stabilities and	<b>Thursday</b> or a Spherical Tokamak Ac Their Impacts on Core Co	Levesque dvanced Reactor infinement in MAST and M	Yang 1AST-U
Session #1-1 Berkery Wong Pankin	9:00 Stability Cor Fishbone Ins Predicting E	nsiderations fo stabilities and LM Stability in	<b>Thursday</b> or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usir	Levesque dvanced Reactor infinement in MAST and M ng the Extended MHD NIM	Yang  1AST-U  ROD and M3D-C1 Codes
Session #1-1 Berkery Wong Pankin Takemura	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in	nsiderations fo stabilities and LM Stability in n Mode Freque	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co a Spherical Tokamaks Usin ency Behavior during Acce	Levesque dvanced Reactor Infinement in MAST and M Ing the Extended MHD NIM Eleration and Deceleration	Yang  MAST-U  ROD and M3D-C1 Codes in LHD
Session #1-1 Berkery Wong Pankin Takemura Session #1-2	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00	nsiderations for stabilities and LM Stability in n Mode Freque 12:30	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usir ency Behavior during Acce Thursday	Levesque dvanced Reactor infinement in MAST and M ing the Extended MHD NIM eleration and Deceleration Berkery	Yang MAST-U ROD and M3D-C1 Codes in LHD Benedett
Session #1-1 Berkery Wong Pankin Takemura	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co	nsiderations for stabilities and LM Stability in n Mode Freque 12:30	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usir ency Behavior during Acce Thursday	Levesque dvanced Reactor Infinement in MAST and M Ing the Extended MHD NIM Eleration and Deceleration	Yang MAST-U ROD and M3D-C1 Codes in LHD Benedett
Session #1-1 Berkery Wong Pankin Takemura Session #1-2 Myers	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co	nsiderations for stabilities and LM Stability in n Mode Freque 12:30 oupling of Core	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usin ency Behavior during Acce Thursday e-resonant Tearing Mode	Levesque dvanced Reactor infinement in MAST and M ing the Extended MHD NIM eleration and Deceleration Berkery s and Edge Fluctuations in	Yang  MAST-U  ROD and M3D-C1 Codes in LHD  Benedett  QH-mode Plasmas in
Session #1-1 Berkery Wong Pankin Takemura Session #1-2 Myers Turco	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co DIII-D Radiation In	nsiderations for stabilities and LM Stability in n Mode Freque 12:30 oupling of Core duced Non-lin	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usin ency Behavior during Acce Thursday e-resonant Tearing Mode	Levesque dvanced Reactor infinement in MAST and M ing the Extended MHD NIM eleration and Deceleration Berkery is and Edge Fluctuations in aseline Scenario Plasmas	Yang  MAST-U  ROD and M3D-C1 Codes in LHD  Benedett  QH-mode Plasmas in in DIII-D
Session #1-1 Berkery Wong Pankin Takemura Session #1-2 Myers	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co DIII-D Radiation In ELM-free Hi	nsiderations for stabilities and LM Stability in n Mode Freque 12:30 oupling of Coro duced Non-lin gh Confineme	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usin ency Behavior during Acce Thursday e-resonant Tearing Mode	Levesque dvanced Reactor infinement in MAST and M ing the Extended MHD NIM eleration and Deceleration Berkery s and Edge Fluctuations in	Yang  MAST-U  ROD and M3D-C1 Codes in LHD  Benedett  QH-mode Plasmas in in DIII-D
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Session #1-1 Berkery Wong Pankin Takemura Session #1-2 Myers Turco Barada Jiang Session #1-3	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co DIII-D Radiation In ELM-free Hi Locked Mod Error field ic	nsiderations for stabilities and LM Stability in n Mode Freque 12:30 oupling of Coro duced Non-lin gh Confineme e in DIII-D dentification w	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usin ency Behavior during Acce Thursday e-resonant Tearing Mode ear Oscillations in ITER B int Regime Obtained and with rotating RMP fields Thursday	Levesque dvanced Reactor infinement in MAST and M ing the Extended MHD NIM eleration and Deceleration Berkery s and Edge Fluctuations in aseline Scenario Plasmas Sustained in the Presence  Hansen	Yang  MAST-U  ROD and M3D-C1 Codes in LHD  Benedett  QH-mode Plasmas in in DIII-D of a Benign m/n=-4/-1  Myers
Session #1-1 Berkery Wong Pankin Takemura Session #1-2 Myers Turco Barada Jiang Session #1-3 Hurst	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co DIII-D Radiation In ELM-free Hi Locked Mod Error field ic 14:00 MHD Behavi	nsiderations for stabilities and LM Stability in Mode Frequental 12:30 oupling of Corollary Confinemental Confinem	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usin ency Behavior during Acce Thursday e-resonant Tearing Mode ear Oscillations in ITER B or Regime Obtained and with rotating RMP fields Thursday cuptive MST Tokamak Plas	Levesque dvanced Reactor infinement in MAST and M ing the Extended MHD NIM eleration and Deceleration Berkery is and Edge Fluctuations in aseline Scenario Plasmas Sustained in the Presence Hansen smas up to Ten Times the	Yang  MAST-U  ROD and M3D-C1 Codes in LHD  Benedett  QH-mode Plasmas in in DIII-D of a Benign m/n=-4/-1  Myers  Greenwald Limit
Session #1-1 Berkery Wong Pankin Takemura Session #1-2 Myers Turco Barada Jiang Session #1-3 Hurst Orlov	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co DIII-D Radiation In ELM-free Hi Locked Mod Error field ic 14:00 MHD Behavi Advancement	nsiderations for stabilities and LM Stability in n Mode Freque 12:30 oupling of Coro duced Non-lin gh Confineme e in DIII-D dentification w 15:30 ior of Non-disr nts in KSTAR 3	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usin ency Behavior during Acce Thursday e-resonant Tearing Mode ear Oscillations in ITER B nt Regime Obtained and with rotating RMP fields Thursday ruptive MST Tokamak Plas ED Edge Long-Pulse Tokan	Levesque dvanced Reactor infinement in MAST and Ming the Extended MHD NIMeleration and Deceleration Berkery s and Edge Fluctuations in aseline Scenario Plasmas Sustained in the Presence  Hansen smas up to Ten Times the mak Scenarios with Instabi	Yang  MAST-U  ROD and M3D-C1 Codes in LHD  Benedett  QH-mode Plasmas in in DIII-D of a Benign m/n=-4/-1  Myers  Greenwald Limit lity & Transport Control
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Session #1-1 Berkery Wong Pankin Takemura Session #1-2 Myers Turco Barada Jiang Session #1-3 Hurst Orlov Chandra	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co DIII-D Radiation In ELM-free Hi Locked Mod Error field ic 14:00 MHD Behavi Advancement Dependence from a Coup	nsiderations for stabilities and LM Stabilities and LM Stability in Mode Frequent 12:30 oupling of Corolland Confineme e in DIII-D dentification was serior of Non-dismoster of Wall Stabilitied Kink-tearing of Kink-tearing stabilities and the stabilities of Wall Stabilities and the stabilities of Wall Stabilities and the stabilities are stabilities are stabilities and the stabilities are stabilities and the stabilities are stabilities are stabilities and the stabilities are stabilities are stabilities and the stabilities are stabilities and the stabilities are stabilities are stabilities and the stabilities are stab	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usin ency Behavior during Acce Thursday e-resonant Tearing Mode ear Oscillations in ITER B nt Regime Obtained and with rotating RMP fields Thursday ruptive MST Tokamak Plas ED Edge Long-Pulse Tokan lization and qa on Sawtoo ng Mode in HBT-EP	Levesque dvanced Reactor infinement in MAST and Ming the Extended MHD NIMeleration and Deceleration Berkery s and Edge Fluctuations in aseline Scenario Plasmas Sustained in the Presence  Hansen smas up to Ten Times the mak Scenarios with Instabilioth Triggering of Saturated	Yang  MAST-U  ROD and M3D-C1 Codes in LHD  Benedett  QH-mode Plasmas in in DIII-D of a Benign m/n=-4/-1  Myers  Greenwald Limit lity & Transport Control is 2/1 Tearing Modes
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Session #1-1 Berkery Wong Pankin Takemura Session #1-2 Myers Turco Barada Jiang Session #1-3 Hurst Orlov Chandra Levesque	9:00 Stability Cor Fishbone Ins Predicting E Hysteresis in 11:00 Nonlinear Co DIII-D Radiation In ELM-free Hi Locked Mod Error field io 14:00 MHD Behavi Advancement Dependence from a Coup MHD Activit 16:00 Expanded To	nsiderations for stabilities and LM Stabilities and LM Stability in Mode Frequent 12:30 oupling of Corollary Confineme e in DIII-D dentification was 15:30 of Wall Stabilities of Wall Stabilities (March 17:30 obsamak Disrup	Thursday or a Spherical Tokamak Ac Their Impacts on Core Co Spherical Tokamaks Usin ency Behavior during Acce Thursday e-resonant Tearing Mode ear Oscillations in ITER B nt Regime Obtained and with rotating RMP fields Thursday ruptive MST Tokamak Plas ED Edge Long-Pulse Tokan lization and qa on Sawtoo ng Mode in HBT-EP Operation of the Runaw Thursday otion Event Characterization	Levesque dvanced Reactor infinement in MAST and Ming the Extended MHD NIMeleration and Deceleration Berkery s and Edge Fluctuations in aseline Scenario Plasmas Sustained in the Presence  Hansen smas up to Ten Times the mak Scenarios with Instabilioth Triggering of Saturated ay Electron Mitigation Coil	Yang  MAST-U  ROD and M3D-C1 Codes in LHD  Benedett  QH-mode Plasmas in  in DIII-D  of a Benign m/n=-4/-1  Myers  Greenwald Limit lity & Transport Control 2/1 Tearing Modes  I (REMC) in HBT-EP  Van Mulders
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Session title	Talk title Chair Assistant chair					
Session #2-1	9:00 10:30 Friday Navratil Zamkovska					
Dudkovskaia	Neoclassical Tearing Mode Physics in the Presence of Impurity Ions					
Benjamin	Towards Robust Asymptotic Equilibrium Behavior for Spectral 3D MHD Codes					
Hanson	Simulating Feedback-controlled Error Field Correction					
Boyes	Ideal Kink Stability of Negative Triangularity Plasmas					
Session #2-2	11:00 12:30 Friday Orlov Eskew					
Rothstein	Leveraging Automated Equilibria on MHD Stability Analysis and ML-based Active Tearing Mode					
	Suppression in DIII-D					
Benedett	Exploring Trends in Faraday-effect Polarimetric Measurements of the DIII-D Tokamak Core Magnetic					
	Fields for Reactor-relevant Diagnostic and Control Applications					
Van Mulders	Improved Reconstruction of Plasma Profiles and Equilibrium through Dynamic State Estimation: from					
	TCV and AUG to ITER					
Xie	Startup Runaway Electron Evolution and Interaction with MHD					
Session title	Poster title					
Poster	14:00 17:30 Friday					
Andrew	Using Nonextensive Statistics and Spectral Theory to Characterize Anomalous Diffusion in Fusion					
	Plasmas					
Butt	3D Plasma Response Investigation of Operational Space Expansions using a Self-consistent Integrate					
	Modeling Framework					
Chiriboga	Development of an n = 1 Optical Mode Tracking Feedback Control System on HBT-EP using a Deep					
	Learning Neural Network					
Da Silva	Experimental Study of the Toroidal Distribution of Energetic Electron Loss in the Presence of a					
	Runaway Electron Mitigation Coil (REMC)					
DeGrandchamp	MHD phenomenology of recent high qmin plasmas in DIII-D					
Eskew	The Role of Island Bifurcation on Deconfinement of Energetic Electrons					
Farre Kaga	Physics and Statistical Analysis of Machine Learning-based Tearing Mode Prediction, with Application					
	to Experimental Tearing Mode Suppression in the DIII-D Advanced Inductive Scenario					
Khavin	Development of ECE-I and ECE Synthetic Diagnostics in NIMROD					
Zamkovska	A Cross-machine Model for Halo Current in DECAF as a Criterion for Deployment of Disruption					
Session title	Talk title Chair Assistant chair					
Session #3-1	9:00 10:30 Saturday Logan Andrew					
Boozer	Electric Field Effects during Disruptions					
Guazzotto	Cylindrical Viscous Boundary Layer For Transonic Equilibrium					
Elster	Two-Fluid Effects on Linear Tearing Mode Stability					
Reiman	Development of a reliable quantitative prediction capability for magnetic island stabilization and					
	destabilization will require experimental data from systematic parameter scans					
Session #3-2	11:00 12:30 Saturday					
Yang	Metrics for Progress in Tokamak Stability Control					
All	Metrics for Progress in Tokamak Stability Control, Group Discussion					