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	Boozer	Dudkovskaia (R)			
			Wong	Guazzotto	Benjamin			
			Pankin	(Elster)	Hanson (R)			
		10:30	Vacant	Vacant	(Khavin)			
Coffee #1	10:30	11:00		D 11 1 1	.,			
Morning #2	11:00		Myers	Rothstein	Yang			
			Turco (R)	Benedett	All			
		12.20	Barada	Van Mulders				
Lunale	12.20	12:30	Xie	(Farre Kaga)				
Lunch Afternoon #1	12:30 14:00	14:00	Hurst	Poster / Tour	Adjourn			
Artemoon #1	14.00		Takemura	Poster / Tour	Aujourn			
			Chandra					
		15:30	Levesque					
Coffee #2	15:30	16:00	Levesque					
Afternoon #2	16:00	10.00	Sabbagh	_				
Arteriloon #2	10.00		Tobin					
			Buston Ramirez					
		17:30	Lee					
			burn, Alabama: October	3-5, 2024				
Invited talks	22 minutes	Uninterrupte	•	<i>3</i> 3, 202 i				
Contributed talks		-						
Discussions	14 minutes Uninterrupted 26 minutes On all previous talks, including clarifying questions							
Reception	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					
		_	II be served on Saturday	,				
Session title	Talk title			Chair	Assistant chair			
Session #1-1	9:00	10:30	Thursday	Levesque	Yang			
Berkery	Stability Considerations for a Spherical Tokamak Advanced Reactor							
Wong	Fishbone Instabilities and Their Impacts on Core Confinement in MAST and MAST-U							
Pankin	Predicting E	LM Stability in	Spherical Tokamaks Usi	ng the Extended MHD NI	MROD and M3D-C1 Codes			
Vacant								
Session #1-2	11:00 12:30 Thursday Berkery Benedett							
Myers	Nonlinear Coupling of Core-resonant Tearing Modes and Edge Fluctuations in QH-mode Plasmas in							
Turco	Radiation Induced Non-linear Oscillations in ITER Baseline Scenario Plasmas in DIII-D							
Barada		_	nt Regime Obtained and	Sustained in the Presence	e of a Benign m/n=-4/-1			
		Locked Mode in DIII-D						
Xie		Startup Runaway Electron Evolution and Interaction with MHD						
Session #1-3	14:00 15:30 Thursday Hansen Myers							
Hurst	MHD Behavior of Non-disruptive MST Tokamak Plasmas up to Ten Times the Greenwald Limit							
Takemura	Hysteresis in Mode Frequency Behavior during Acceleration and Deceleration in LHD							
Chandra	Dependence of Wall Stabilization and q <sub>a</sub> on Sawtooth Triggering of Saturated 2/1 Tearing Modes							
	from a Coupled Kink-tearing Mode in HBT-EP MHD Activity during Initial Operation of the Runaway Electron Mitigation Coil (REMC) in HBT-EP							
Levesque								
Session #1-4	16:00	17:30	Thursday	Howell	Van Mulders			
Sabbagh	-	-		on and Forecasting Resea	arch and investigation of			
Tohin	High Beta Plasmas in MAST-U							
Tobin	Multi-tokamak Application of a VDE Forecasting Approach for Disruption Avoidance using DECAF							
Buston Ramirez	Study of Electron Temperature Profile Evolution as a Plasma Disruption Predictor through Disruption							
Laa	Event Characterization and Forecasting (DECAF) Analysis  Investigation of Tokamak Control Leveraging Disruption Event Characterization and Forecasting							
Lee	Investigation of Tokamak Control Leveraging Disruption Event Characterization and Forecasting (DECAF) in KSTAR							
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Session title	Talk title			Chair	Assistant chair				
Session #2-1	9:00	10:30	Friday	Navratil	Zamkovska				
Boozer	Electric Fie	Electric Field Effects during Disruptions							
Guazzotto	Cylindrical Viscous Boundary Layer For Transonic Equilibrium								
(Elster)	Two-Fluid Effects on Linear Tearing Mode Stability								
Vacant									
Session #2-2	11:00	12:30	Friday	Orlov	Yang				
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								
(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								
Session title	Poster title	9							
Poster	14:00 17:30 Friday								
Boyes	Ideal Kink Stability of Negative Triangularity Plasmas								
Butt	t 3D Plasma Response Investigation of Operational Space Expansions using a Self-consistent								
	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)								
Orlov	Advancements in KSTAR 3D Edge Long-Pulse Tokamak Scenarios with Instability & Transport Control								
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	Yang				
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								
(Khavin)	Development of ECE-I and ECE Synthetic Diagnostics in NIMROD								
Session #3-2	11:00	12:30	Saturday						
Yang	Metrics for Progress in Tokamak Stability Control								
All	Metrics for	Metrics for Progress in Tokamak Stability Control, Group Discussion							