

**COFFIES 3rd Annual Meeting**  
**Wednesday - Friday, January 22-24, 2025**  
**Conference Room, PAB 102/103, Stanford University**

**Wednesday**

8:30	Welcome		Todd Hoeksema
8:35	Milestones 1	Introduction	Dave Lauben
9:00	Tachocline 1		Nic Brummell & Gustavo Guerrero
	9:00	Intro & Status	Nic Brummell
	9:20	Tachocline modeling updates	Loren Matilsky
	10:05	Tachocline helioseismology updates	Sylvain Korzennik
10:30	<b>Break</b>		
11:00	FT&E 1		Bill Abbett & Aimee Norton
	11:00	Intro and Milestones	Bill Abbett
	11:15	Predicting the Timing of Polar Field Reversal for Cycle 25	Bibhuti Kumar Jha
	11:45	The Relationship between Magnetic and Kinetic Helicity	Yang Liu
	12:15	The Dependence of Joy's Law and AR Tilt as a Function of Emergence Phase	Todd Hoeksema
12:30	<b>Lunch</b>		
13:30	Undergrad Ed	Summer Research with COFFIES	Dan Zevin
14:00	Early Career	Beans Activities & Presentations	Slava Sadykov
15:00	<b>Break</b>		
15:30	NSSL 1		Nick Featherstone & Rudi Komm
	15:30	Intro & Status	Rudi Komm
	15:35	Investigating the Possible Role of MRI in the NSSL	Kyle Augustson
	15:55	Investigating Thermal Energy Transport in the NSSL	Kinfe Teweldebirhan
	16:15	Solar-Cycle Variation of Zonal & Meridional Flow from GONG Large-Aperture RDA	Sushant Tripathy (virtual)
	16:35	A Magnetohydrodynamic Mechanism for the Formation of Solar Polar Vortices	Mausumi Dikpati (virtual)
	16:55	Discussion	
17:00	<b>Adjourn</b>		
18:00	Beans Activity!	Game Night & Pizza!	<i>Cypress Hall C Conference Room</i>

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## Thursday

8:30	NASA Update	A Word from our Sponsors	Katya Verner and Janet Kozyra
9:00	Dynamo		Alexander Kosovichev & Gustavo Guerrero
9:00		Team Progress and Status	Alexander Kosovichev
9:20		Unveiling Dynamo Waves in the Sun	Krishnendu Mandal
9:35		Revising the Convective Conumndum	John Stefan
9:50		Solar Active Regions Emergence Prediction	Spiridon Kasapis
10:05		Full Compressible Hydrodynamics Simulation of the Solar Convection Zone with CHORUS++ code	Keiji Hayashi
10:20		General discussion	
10:30	<b>Break</b>		
11:00	Model Integration		Irina Kitiashvili & Alan Wray
11:00		Team Progress and Status	Irina Kitiashvili
11:20		Current Status on 3D Realistic Modeling of the Sun on Global Scales with StellarBox code	Alan Wray
11:40		Modeling of Cycle 23 with the CHORUS code	Charles Liang
12:10		Progress in radiative transfer and ML modeling to understand solar dynamics and plans	Viacheslav Sadykov
12:30	<b>Lunch</b>		
13:15	Helioseismology		Ruizhu Chen & Rudi Komm
13:15		Introduction	Rudi Komm
13:20		Multi-Height Observations of Atmospheric Gravity Waves	Oana Vesa
13:35		High-Latitude Inertial Waves	Boyang Ding
13:50		HMI-GONG Meridional Flows using Time-Distance	Ruizhu Chen
14:05		Boulder-Stanford Ring-Diagram Analysis Comparison	Rick Bogart/Sushanta Tripathy
14:20		Mid-Term Periodicities in Helioseismic Observations — A challenge to solar dynamo models	Kiran Jain
14:35		Discussion	
14:45	Team Building	CET	Shea Hess Webber & Oana Vesa
16:15	Surface Links		Todd Hoeksema & Bill Abbett
16:15		Team Progress & Milestones	Todd Hoeksema
16:30		WG2: Patterns from Variations in Zonal/Meridional Flows	Sushant Mahajan
17:00		WG3: Incorporating a Kalman Filter into Surface Flux Transport Models	Marc DeRosa
17:30	<b>Adjourn</b>		
19:00	<b>Conf. Dinner</b>	Buca di Beppo	643 Emerson, Palo Alto

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### Friday

8:30	Site Visit Planning	Todd Hoeksema & Dave Lauben
9:30	NSSL 2      Discussion Session: What's Next?	Nick Featherstone & Rudi Komm
10:30	<b>Break</b>	
11:00	Broadening Impacts	Bryan Mendez
12:00	Communications    Public Outreach	Bryan Mendez
12:30	<b>Lunch</b>	
13:15	Tachocline 2	Nic Brummell & Gustavo Guerrero
13:15	Tachocline instabilities updates	Mausumi Dikpati
13:45	Discussion Session: What's Next?	Nic Brummell & Gustavo Guerrero
14:15	FT&E 2	Bill Abbett & Aimee Norton
14:15	Polar Field Measurements from Hinode/SP	Xudong Sun
14:45	Discussion - FT&E Milestone Challenges	Bill Abbett
15:15	<b>Break</b>	
15:30	Milestones 2	Dave Lauben
17:00	Adjourn	