The US-Japan Workshop on Magnetic Reconnection 2008



Program Agenda (near-final : Feb 26)

Okinawa Zampamisaki Royal Hotel, **Convention room [KOCHO]** (3rd floor)

March 3	
8:00-8:15	registration
8:15-8:30	opening
Monday morning	a 1 SOLAR 1 Chair : Hoshino
8:30-9:00	Tsuneta (NAOJ)
	"Recent results from HINODE"
9:00-9:20	Hara (NAOJ)
0.00 0.20	"Spectroscopic observations of magnetic reconnection in the solar corona"
9:20-9:50	Isobe (U. Tokyo)
	"Reconnection in the lower atmosphere of the sun"
9:50-10:20	break
Monday morning	g 2 SIM/THEORY 1 Chair : Shibata
10:20-10:50	Cheng (NCKU)
	"Impulsive magnetic reconnection processes in solar flares and CMEs and laboratory plasmas"
10:50-11:20	Bhattacharjee (U. New Hampshire)
	"Onset of magnetic reconnection and its nonlinear stabilization in laboratory and space plasmas"
11:20-11:50	Lazarian (U. Wisconsin, Madison)
	"Turbulent reconnection and its simulations"
11:50-12:20	Swisdak (U. Maryland)
	"Development of a turbulent outflow during electron-positron magnetic reconnection"
12:20-13:30	lunch

Monday afternool	n 1 LABORATORY 1 Ch	air : Ono
13:30-14:00	Prager (U. Wisconsin, Madison)	
	"The effect of reconnection on plasma flow"	
14:00-14:30	Bellan (Caltech)	
	"Simulating astrophysical flows in laboratory e	xperiments"
14:30-15:00	Brown (Swarthmore C.)	
	"Outflow jets in the SSX reconnection experim	ient"
15:00-15:30	break	
Monday afternool	n 2 ASTRO 1 Chair : Bha	ttacharjee
15:30-16:00	Terasawa (Tokyo Inst. Tech.)	
	"Reconnection in neutron star magnetosphere	es"
16:00-16:30	Zenitani (NASA/GSFC)	
	"The role of the Weibel instability at the recon	nection jet front in relativistic pair plasma reconnection"
16:30-17:00	Jaroschek (U. Tokyo)	
	"Non-thermal particle generation in relativistic	current sheets (RCS):
	Interacting RCS ensambles, baryon contamin	ation and radiative losss"
17:00-18:00	poster session	
18:30-20:00	free & dinner	

March 4

Tuesday morning	1 S II	M/THEORY 2	Chair : Kusano
8:00-8:30	Daughton ((LANL)	
	"Dynamics of	collisionless magnetic recon	nection in large-scale electron-positron plasmas"
8:30-9:00	Horiuchi (N	IIFS)	
	"Multi-scale si	imulation of collisionless driv	en reconnection in an open system"
9:00-9:20	Ohtani (NIF	FS)	
	"Open bounda	ary condition of particle simu	lation for collisionless driven reconnection"
9:20-9:50	Shinohara	(ISAS/JAXA)	
	"Electron acce	eleration during multiple X-lir	e reconnection"

9:50-10:20 break

Tuesday morning	g 2 LABORATORY 2 Chair : Phan
10:20-10:50	Park (POSTECH)
	"Validation and verification of the reconnection process of the sawtooth crash in tokamak plasma"
10:50-11:20	Egedal (MIT)
	"Collisionless magnetic reconnection ; a celestial phenomenon in the laboratory"
11:20-11:50	Frank (A.M. Prokhorov Institute of General Physics)
	"Structure and dynamics of both the Hall currents and the main current generating a current sheet"
11:50-12:10	Inomoto (Osaka U.)
	"Current sheet compression experiment under guide magnetic field"
12:10-13:30	lunch
Tuesday afternoo	
13:30-14:00	Yamada, M (PPPL)
44.00.44.00	"Recent experimental study of two-fluid physics on identification of electron diffusion layer in MRX"
14:00-14:30	Phan (U. California, Berkeley)
	"Observational evidence for an elongated (>60 ion skin depths) electron diffusion region
14:30-14:50	during fast magnetic reconnection"
14.30-14.30	Xiao (NAOC) <i>"In-situ evidences for the magnetic null and separator-line geometry in 3D magnetic reconnection region"</i>
14:50-15:10	Pu (Peking U.)
14.30-13.10	"Magnetic reconnection : New results from Cluster and Double Star measurements"
15:10-15:40	break
Tuesday afternoo	on 2 SPACE2 Chair : Hesse
15:40-16:00	Nakamura, T (ISAS/JAXA)
	"Structure of magnetospheric flux transfer events:
	Comparing Geotail observations and two-fluid simulations"
16:00-16:20	Den (NIFS)
	"On the condition of magnetic reconnection in the magnetotail"

- 16:20-16:50 **Pollock** (SWRI) "The Magnetospheric MultiScale mission"
- 16:50-17:50 poster session
- 18:30-21:00 banquet

March 5

Wednesday mor	rning 1 ASTRO 2 Chair : Lazarian		
8:00-8:30	Matsumoto (Chiba U.)		
	"Global magnetohydrodynamic simulations of state transitions and jet formation in accretion disks"		
8:30-8:50	Machida (NAOJ)		
	"Quasi-periodic oscillation of an inner torus by the magnetic activities"		
8:50-9:20	Hirose (JAMSTEC)		
	"Structure of accretion disks with local dissipation of turbulence and radiative transport"		
9:20-9:40	Nitta (NAOJ)		
	"A new model of magnetic reconnection beyond the Petschek model"		
9:40-10:10	break		
Wednesday mor	ming 2 SOLAR 2 Chair : Bellan		
10:10-10:40	Shibata (Kyoto U.)		
	"Magnetic reconnection in the solar plasma"		
10:40-11:00	Katsukawa (NAOJ)		
	"Magnetic reconnection in sunspot penumbrae observed with HINODE"		
11:00-11:20	Cassak (U. Delaware)		
	"From solar and stellar flares to coronal heating: Theory and observations of		
	how magnetic reconnection regulates coronal conditions"		
11:20-11:50	Kusano (JAMSTEC)		
	"Study on the trigger mechanism of solar flares and coronal mass ejections based on		
	data-driven simulations"		
11:50-12:10	Haruki (U. Salford)		
	"PIC simulation of magnetic reconnection during stressed X-point collapse"		

12:10-13:30	lunch
13:30-19:00	excursion tour
19:00-	dinner

March 6

Thursday mornir	ng 1 SIM/THEORY 3	Chair : Daughton
8:00-8:30	Drake (U. Maryland)	
	"The Hall fields and fast magnetic	reconnection"
8:30-9:00	Hesse (NASA/GSFC)	
	"The dissipation mechanism of ma	agnetic reconnection"
9:00-9:20	Umeda (Nagoya U.)	
	"Two-dimensional Vlasov code sir	nulation of magnetic reconnection"
9:20-9:40	Usami (NIFS)	
	"MHD-PIC interlocked simulation	model for magnetic reconnection studies"
9:40-10:10	break	
10:10-11:10	Panel Discussion C	hair : Yamada, M
11:10-11:30	Future plan Ono, Prag	er
11:30-	Closing	

Poster session (March 3, 17:00-18:00 and March 4, 16:50-17:50)

Cassak (U. Delaware)

"The scaling of asymmetric magnetic reconnection"

Hayashi (U. Tokyo)

"Characteristics of current sheet in non-steady magnetic reconnection"

Hirai (U. Tokyo)

"Origin of hard spectra of the energetic ions in the plasma sheet"

Li (Grad U. Adv. Sci.)

"Numerical studies of electron dynamics in steady collisionless driven reconnection"

Moritaka (Nagoya U.)

"Roles of ions and electrons in the generation of anomalous resistivity in a thin current sheet"

Nakamura, K (Matsue C. Tech.)

"2 dimensional MHD simulations of accretion disk evaporation / condensation"

Nishizuka (Kyoto U.)

"Giant chromospheric jet observed with Hinode and magnetic reconnection model"

Ono (U. Tokyo)

"Recent progress of TS-4 magnetic reconnection experiment"

Sugiyama (JAMSTEC)

"Fluid-particle interlocked simulations ~Basic algorithm and plasma applications~"

Swisdak (U. Maryland)

"Ion pickup and acceleration in magnetic reconnection exhausts"

Takahashi (Chiba U.)

"Magnetic energy release in relativistically expanding magnetic loops"

Yamada, T (U. Tokyo)

"Nonlinear mode couplings in linear plasmas"

You (U. Tokyo)

"Sausage instability precursor to detachment of current-carrying magnetic flux tube"