2017 US-JPN Workshop on RF Physics

September 6 - September 8, 2017 / DoubleTree Suites, Santa Monica, CA, USA

Date	Time	Name	Organization	Title
Sept. 6	10:30 - 12:30			**Registration for RF Physics Workshop**
	12:30 - 14:00			**Lunch**
		JOINT 1		
	14:00 - 14:30	M. Henderson	ITER	*Technology needs for the ITER EC system and future fusion devices*
	14:30 - 15:00	J. Ongena	(LPP/ERM-KMS)	*Study of a traveling wave antenna system for ICRF heating of DEMO*
	15:00 - 15:30	H. Idei	Kyushu Univ.	*Fully non-inductive plasma current start-up by focused millimeter-wave beam in QUEST*
	15:30 - 16:00			**Coffee break**
		JOINT 2		
	16:00 - 16:30	S. Shiraiwa	MIT	*Status of core-edge integrated ICRF simulation using open-source MFEM library*
	16:30 - 17:00	Y. Takase	Univ. of Tokyo	*Plasma current start-up experiments using the lower hybrid wave in the TST-2 spherical tokamak*
	17:00 - 17:30	X. Yang	Tri Alpha Energy	*Exploring the mechanism of high harmonic fast wave electron heating in the field-reversed configuration plasma*
	19:00 - 21:00			**Banquet (Sonoma Wine Garden)**
Sept. 7		**LHRF**		
	9:30 - 10:00	S. Wukitch (S. Shiraiwa)	MIT	*High Field Side Lower Hybrid Current Drive for Off-axis Current Drive in DIII-D*
	10:00 - 10:30			**Coffee break**
	10:30 - 11:00	Porkolab	MIT	*Parametric instabilities in DIII-D during injection of helicon waves at 0.48 GHz and lower hybrid waves at 4.6 GHz*
	11:00 - 11:30	Lau	ORNL	*Finite element modeling of helicon and lower hybrid waves*
	11:30 - 12:00	Pinsker	GA	*Helicon coupling experiments on DIII-D; fast and slow wave ray-tracing studies for DIII-D*
		Theory and modeling		
	12:00 - 12:30	Horton	Texas	*RF wave propagation and scattering in turbulent plasmas*
	12:30 - 14:00			**Lunch**
		Theory and modeling		
	14:00 - 14:30	Fukuyama	Kyoto	*Kinetic full-wave analysis in tokamak plasmas using FEM*
	14:30 - 15:00	Bertelli	PPPL	*Self-consistent calculation of RF/beam-ion interaction in toroidal plasmas for HHFW heating regimes*
	15:00 - 15:30	Murakami	Kyoto	*Simulation study of RF-induced toroidal flow by energetic particles due to ICH and ECH in toroidal plasmas*
	15:30 - 16:00			**Coffee break**
		Experiments 1		
	16:00-16:30	Yoshimura	NIFS	*Improvement of plasma parameters by applying ECH/ECCD in LHD*
	16:30-17:00	Taylor	PPPL	*Predictive simulations of low-Ip NSTX-U discharges heated by 30 MHz FW power that achieve a high non-inductive current*
	17:00-17:30	Uchida	Kyoto	*Recent results on non-inductive startup of ST by electron Bernstein wave on LATE*
	18:00 - 19:30			**Technical Tour (Basic Plasma Science Facility at UCLA)**
Sept. 8		**Experiments 2**		
	8:30-9:00	Kubo	NIFS	*Plan for a direct detection of EBW by sub-THz gyrotron scattering in QUEST*
		Sheath Mini-workshop		
	9:00-9:30	Lau	ORNL	*RF near-field interaction experiments and modeling at ORNL*
	9:30-10:00	Kohno	Kyushu Inst. Tech.	*Numerical analysis of RF sheath-plasma interactions based on a sheath impedance mode*
	10:00-10:30			**Coffee break**
	10:30-11:00	Hosea	PPPL	*RF Rectified Current Flow for HHFW and Minority ICRF Heating*
	11:00-11:30	E.-H. Kim	PPPL	*2D full-wave simulation of HHFW in the scrape-off layer of NSTX*
	11:30-12:00	Van Compernolle	UCLA	*Fast wave experiments in LAPD: RF sheaths, convective cells and density modifications*
	12:00-12:30	Perkins	PPPL	*RF rectification in LAPD in support of fusion research: relationship between rectified currents and potentials*
	12:30-14:00			**Lunch**
	14:00-15:00			**Joint planning (2018)**
	15:00 - 17:00			**Special Film Screening: LET THERE BE LIGHT (Atkinson Hall, UCSD San Diego)**