14th International Symposium on LASER-AIDED PLASMA DIAGNOSTICS

Castelbrando, Treviso, Italy, September 21 – 24, 2009

Agenda

Monday 21/09/2009

SESSION	TIME	CODE	NAME	TITLE
21-AM1	8:00	Registrat.		
	8:45	Opening	Donne'/Gnesotto	
	9:00	AK	John Sheffield	Updating "Plasma Scattering of Electromagnetic Radiation"
	9:50	G1	Takaki Hatae	Progress in development of the advanced Thomson scattering diagnostics
	10:30	BREAK		
21-AM2	10:50	G2	Giorgio Dilecce	LIF diagnostics in volume and surface dielectric barrier discharges at atmospheric pressure
	11:30	S1	Santolo De Benedictis	LIF investigations of O and NO products in air like RF plasma jet
	11:45	S2	Nikolas Knake	Investigations on the generation of atomic oxygen inside a capacitively coupled atmospheric pressure plasma jet
	12:00	T1	Koichi Sasaki	Diagnostics of inductively-coupled nitrogen plasmas by laser-induced fluorescence, cavity-ringdown absorption spectroscopy, and vacuum ultraviolet absorption spectroscopy
	12:25	S3	Paul Woskov	Observations and Modeling of the Electron Cyclotron Emission Background in the Levitated Dipole Experiment
	12:40			
	13:00	LUNCH		
21-PM1	15:30	G3	Hyeon K. Park	Collective scattering system for transport study on NSTX
	16:10	T2	Teruo Saito	Development of terahertz gyrotrons and their applications to LHD CTS
	16:35	T3	Masaki Nishiura	Initial result of collective Thomson scattering using 77 GHz gyrotron for bulk and tail ion diagnostics in the Large Helical Device
	17:00	BREAK		
21-PM2	17:20	G4	Juergen Roepcke	Quantum Cascade Laser Absorption Spectroscopy - a new method to study molecular plasma components
	18:00	T4	David Riley	Optical Thomson scatter from a laser-ablated magnesium plume

Tuesday 22/09/2009

SESSION	TIME	CODE	NAME	TITLE
22-AM1	8:30	G5	Paolo Innocente	Scanning beam medium infra-red interferometry for plasma density measurements
	9:10	T5	David Brower	Laser-Based Measurement of Magnetic Fluctuation-Induced Particle Transport
	9:35	T6	Roger Smith	Pulsed Polarimetry techniques for the determination of the internal magnetic field in fusion plasmas
	10:00	S4	Kazuo Kawahata	Recent Progress in a Two Color Laser Diagnostics
	10:15	S5	Daniel Den Hartog	Pulse-burst operation of standard Nd:YAG lasers
	10:30	BREAK		
22-AM2	11:00	G6	Nader Sadeghi	Influence on $Ar^*(^3P_2)$ or $He^*(^3S_1)$ metastable atoms and electron densities of dust formation in argon and helium + 6% acetylene CCP plasmas
	11:40	S6	Willem-Jan van Harskamp	Photo detachment measurements to study the role of negative ions on the excited hydrogen atom density in a magnetized plasma expansion
	11:55	G7	Kodo Kawase	Terahertz light sources and imaging applications
	12:35	T7	Ayumi Ando	Electron density measurement for plasmas by Terahertz time-domain spectroscopy
	13:00	LUNCH		

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Wednesday 23/09/2009

SESSION	TIME	CODE	NAME	TITLE
23-AM1	8:30	G8	Elizabeth Foley	The motional Stark effect with laser-induced fluorescence diagnostic
	9:10	G9	Mitsutoshi Aramaki	Measurement of neutral flow velocity in an ECR plasma using tunable diode
	9:50	T8	Fred Skiff	Time resolved LIF with a fast-scanning diode laser
	10:15	S7	Maciej Krychowiak	LIF measurements for validation of collisional-radiative modelling of atomic helium in the edge of a fusion plasma
	10:30	BREAK		
23-PP1	11:00	P01-P12		POSTER PRESENTATIONS I (5 min each) See complete program below
	12:00			
	12:30	LUNCH		
23-PM1	14:00	G10	Sylvie Roke	Sum frequency generation for plasma wall interaction
	14:40	T9	Bernd Schweer	Wall characterisation by laser induced desorption, laser induced ablation and laser induced breakdown spectroscopy
	15:05	T10	Hyeon K. Park	Experimental Results from KSTAR Commissioning and Laser-Aided Diagnostics on KSTAR
23-PP2	15:30	P13-P24		POSTER PRESENTATIONS II (5 min each) See complete program below
	16:30	BREAK		
23-PS	16:45	P01-P24		POSTER SESSION

Thursday 24/09/09

SESSION	TIME	CODE	NAME	TITLE
24-AM1	8:30	G11	Fernando Meo	Recent developments of the fast ion collective Thomson scattering (CTS) diagnostic on ASDEX Upgrade
	9:10	S8	Hennie van der Meiden	Forward coherent Thomson scattering for ion temperature measurements on Magnum-PSI: a feasibility study
	9:25	G12	Nader Sadeghi	Laser Thomson Scattering, Raman Scattering and Laser-Absorption Probing of High Pressure Micro-Discharges
	10:05	BREAK		
24-AM2	10:30	T12	Tsuyohito Ito	Electric field measurements at atmospheric pressure by coherent Raman scattering of laser beams
	10:55	S9	Jörg Ehlbeck	Laser induced fluorescence measurements on W and Ba atoms eroded from fluorescent lamp electrodes
	11:10	S10	Juraj Glosik	Application of NIR – CRDS for state selective study of recombination of para and ortho H_3^+ ions with electrons in low temperature plasma
	11:35	Greetings		

Wednesday 23/09/2009

POSTER PRESENTATIONS I (5 min each) P01 – P12

SESSION	TIME	CODE	NAME	TITLE
23-PP1	11:00	P01	Manuel Alonso	The Multipoint Thomson Scattering Diagnostic for the TCABR Tokamak.
	11:05	P02	Rory Scannell	Absolute calibration of LIDAR Thomson scattering systems on large fusion devices
	11:10	P03	Petra Bílková	Conceptual design of High resolution Thomson scattering system on COMPASS
	11:15	P04	Krzysztof Dzierzega	Thomson scattering from laser induced plasma in air
	11:20	P05	Alessandro Fassina	Edge Thomson scattering in RFX-mod: operation and first measures
	11:25	P06	Matteo Brombin	First measurements of the new multichannel far-infrared polarimeter on RFX-mod
	11:30	P07	Christophe Gil	Analysis of the JET FIR interferometer beam phase changes during plasmas and application for fast fringe jump corrections by electronics
	11:35	P08	Yongun Nam	In-vessel Optic System Design of FIR Interferometer/Polarimeter System for KSTAR
	11:40	P09	Yuya Yokota	Reconstruction method of X-mode ultrashort-pulse reflectometry in LHD
	11:45	P10	Dirk Luggenhoelscher	Argon ion velocity distributions in a helicon discharge measured by laser induced fluorescence
	15:30	P11	Alberto Alfier	A more performing in-situ window cleaning system by laser blow-off through optical fiber
	11:55	P12	Maria Vittoria Siciliano	Velocity distribution of ions in UV laser induced plasma plumes

POSTER PRESENTATIONS II (5 min each) P13 - P23

23-PP2	15:30	P13	M. Inmaculada de la Rosa	Determination of electric field strength and kinetic temperature in the cathode fall region of a hollow cathode discharge
	15:35	P14	Concha Pérez	Characterization of hollow cathode fall field strength measured by Doppler-free two-photon optogalvanic spectroscopy via Stark splitting of the 2S level of Hydrogen and Deuterium
	15:40	P15	Sarah Müller	Electric field measurements in near-atmospheric Pressure nitrogen and air based on a four-wave mixing scheme
	15:45	P16	Mikhail Kantor	Advances of Thomson scattering diagnostic on the TEXTOR tokamak
	15:50	P17	Jongha Lee	Progress in development of KSTAR Thomson scattering system
	15:55	P18	Eugene Mukhin	Thomson scattering diagnostic development for the ITER divertor
	16:00	P19	Roberto Pasqualotto	Calibration methods for ITER core LIDAR
	16:05	P20	Sergey Tolstyakov	Near-infrared tokamak plasma spectroscopy in support of divertor Thomson scattering diagnostic development for ITER
	16:10	P21	Shunji Tsuji-Iio	Thermostatic control of optical isolator for long-term stability of magneto-optic sensing with orthogonally polarized two-frequency laser
	16:15	P22	Philipp Kempkes	Electron density measurement in a pulsed-power plasma by FIR laser beam deflection and/or interferometry
	16:20	P23	Suk-Ho Hong	Developing in-situ Ellipsometry for Tokamak Discharges in KSTAR