SPF 0 casey Ignition in the laboratory at NIF and routes to higher compression territon porade Results Towards Integrating High Core Confinement and Divertor Power Dissipatio Itradue Dynamics of HarkCulater Plasms: Transitioning to the New Ens of High-resolution X-ray Spectroscop Pathways for Improving the understanding of species dynamics in los-temperature magnetized plasmas MAST U The Philosopic Is the processing the uncertaining to a particular the topological and the topological and the philosopical threads which reads on the philosopical threads and the philosopical and th pment of long pulse high performance plasmas towards (TER and CFETR aleady-state operation on EAST How, where and when do coamic rays reach ultrahigh energies? PDD Prices The decay of MHD batculance and the primordial origin of magnetic fields in Mohamad Shabay The mechanism of efficient electron acceleration at panilel non-intabilitie electro John G. Kirk Particle acceleration at ultraniariutic shocks in genmay-ray burst outflows nta core particle depletion in stellarators imic voida /ertical Displacement Events in tokamaka: status and o noes ahead ion shocks which shocks in gammay-ray burst outflows Argytics Louie A Paraxial Invi tion of Resistive Relativistic Jet Dynamics ers and anomalous diffusion in a strongly magnetized, low-temperature plasma in the MDPX devic

BPIF: ICF	
LA. Bose	
Effect of Stro	by Magnetized Electrons and lons on Heat Flow and Symmetry of Inertial Fusion Implosions
13A. Bally-Gri	
Magnetized cy	drical plasma implosion experiments at ONEGA, NIF and LMJ laser facilities.
1:9. Appelbe	
Neutron Spe	oscopy and Suprathermal Ion Distributions in Burning Plaamas
1.V. Gogalase	Y
Recent Prop	as in Crycosnic Direct-Drive Inertial Confinement Fusion on OMEGA

18,30 end of session Theoday 66.20 innovation prophanary 10:40 session

eanary .	MCF	BSAP	LTDP	8P#
	c	J. F. Dake		
asion		Interchange magnetic reconnection as the driver of the fast solar wind		
	MCF: Turbulence and transport	BSAP Basic and space plasma physics, chair: G. Zank	LTDP:2:Plasmas for nanotechnology	BP# mission
	EL VERMARE	k lan Hutchinaon		ET. Domheim
	Confinement, turbulence and flow sensitivity to plasma current in tokamak plasmas	Electron holes in phase space: Recent Theory and Observation	tC. Maccalo	Ab-initio description of Warm Dense Matter
	EP. RODRIGUEZ-FERNANDEZ	H. Terças	Plasma technologies as a multipurpose toolbox for metal oxide nanosystem growth and tailoring	1H. Sawada
	Prediction of core kinetic profiles and burning plasma performance with high-fidelity gyrokinetic simulations in tokamaks	Axion production in strongly magnetized plasmas	tU. Cvelbar	Ultrafast dynamics of relativistic electron heating in high-power laser-produced solid-density matter
	I: Maurtalo Glacomin	1C. Faure	Plasma-synthesized nanostructured and functional films	R. Liotard
	Theory based scaling law of the L-mode and H-mode tokamak density limits and esperimental validation	Acceleration mechanisms in extreme photon-plasma interactions	F. Agaricio	influence of the solid-to-plasma transition on the laser energy deposition in targets and subsequent hydrodynamics for direct drive inertial confinement
	M. Becoulet	P. Steinbrunner	Recent results on the development of advanced plasma-assisted vacuum deposition	S laquinta
	Non-linear evol-kinetic ion Temperature Gradient and Trapped Electron Modes turbulence modelling in X-point geometry with	Thermal equilibrium of non-neutral plasma in a magnetic dipole trap	Y. Yook	Experimental investigation of SIG2 foam-filled hohizaums for inertial fusion
	Eduardo de la Cal	E. Gravier	Method to estimate the process parameters for plasma-enhanced atomic layer deposition using deep learning techniques	D. Barlow
	Two-dimensional ne and Te measurements of the edge plasma turbulence in TJ-II	Collision rates estimated from exact N-body simulations	A Cobos-Luque	Optimization of Polar Direct Drive illumination for Mega-Joule Laser Facilities
		A Gullevic	Towards the (bio)-synthesis of carbon nanostructures: understanding the decomposition of CO ₂ in a microwave plasma at atmospheric pressure	C Daporta
		Beyond resonance broadening and quasilinear theory: towards Kubo >1	N. Romero-Amario	Simulations on the contribution of avalanche effect to gain generation from p-R11 fusion
		E. G. Kostadirova	Atmospheric-pressure microwave Ar/N aftention for best-sensitive surface treatment	
		Experimental study of energetic electrons in magnetic islands in DII-D		

14:00 poster session 16:00 coffee brake 16:30 assaion

16:30 session				
MCF:Daruptions and RE	BSAP:Lasentaboratory plaamas; chair C. Palmer	LTDP:joint MCF/LTDP: Hydrogen-metal plasma chemistry	BP#	MCF:Stellarator
12	20 129		120 0	۵ ا
LBernhard Sieglin	EGeorge Swading	1:Dr. Annarita Laricchiuta		I:Nerea Panadero
Disruption avoidance and investigation of the H-Mode density limit in ASDEX Upgrade	From microscale physics to astrophysical-scale effects: Using experiments on Omega and the NIF to unravel	^d Modeling of molecular kinetics in plasmas		Validation of pellet deposition physics by simulation/experiment comparisons on helical devices
kUmar Sheikh	V. Ospina-Bohdrquez	Ch. Winmer		Literedikt Geiger
Benigh Termination of RE Bearra on ASDEX Upgrade and TCV	Laser-driven ion and electron acceleration from near-critical density gas	From surface production to extraction in negative hydrogen ion sources: diagnosing H ² and its precursors		From the Helically Symmetric eXperiment to a High Field Stellarator Fusion Power Plant
Listvan Pusztal	targets: towards high-repetition rate operation in the PW, <100 fs laser interaction regime	M. Mikaicková		Ediberto Sánchez
Runaway electron dynamics in shattered pellet mitigated ITER disruptions	Hanna Lahma	ERSH and LIF diagnostics of dielectric barrier discharge used for atomization of tin hydride		A new quasi-isodynamic stellarator configuration with good fast-ion confinement and reduced turbulent transport
Stefan Jachmich	777	EA Manhard		G. SCHLEIO
Shattered Pellet Intection experiments at ASDEX-Upprade for dealor optimisation of the ITER Disruption Mitigation	et Bruce A. Remington	Liquid tin interaction with deuterium plasmas		Density control with the water-cooled divertor in Wendelatein 7-X stellarator
Vadim Yanovskiy	New Regimes of Frontier Science on the National Ignition Facility	E.K. Verhaugh		N. Karmochi
Magnetic measurements of disruption forces on COMPASS	T. Silva	The physics of the MAST-Upgrade Super-X divertor		Time-scale dependence of turbulence and heat pulse propagation velocity
	The electron cyclotron maser instability in laser ionised plasmas			Matt Kriete
	A Laso Garcia			Drift effects in the scrape-off layer of the W7-X stellarator
	Probing ultra-fast ionization and homogenization of near-critical density foams at relativistic intensities at the	he HED/HIEEF instrument		
	Michael J. Quin			
	Collective Radiation Reaction in an Electron-Positron Bunch and Laser Collision			

end 18-45 town hall meeting

			1	0
		T.S. Horbury	J. van Dijk: Modeling of reactive plasmas for gas conversion	
		Formation and denamics of the solar wind: new measurements from the inner solar system		
10:40 session	MCF:Scenario development	25AP:Space plasmas; Chair: O. Alexandrova	LTDP:2: Modeling of low-temperature plasmas	BPIF.U Itra-intense laser-plasma interaction
		7	7	7
	18. Labit	it Jula Stawarz		A Mironov
	Progress in the ITER baseline scenario development on TCV	New insights into Turbulence-Driven Magnetic Reconnection from NASA's Magnetospheric Multiscale Mission	Plasma-Surface Interactions in Atomic Layer Processing	Generating electron-positron plasma in QED avalanches with ultra-high intensity lasers
	kH, Han		F. Branald	5.Km
	Long sustained highly peaked ion temperature with internal transport barrier in KSTAR	I: Olivier Le Contel		ion accel, via RPA
	tDarin E. Ernst	Kinetic processes in fast collisionless plasma flows	G. Colorna	M. Giljoham
	Recent Experiments and Simulations to Develop Intrinsically Non-ELMing Enhanced Confinement Regimes	G.P. Zark	Modeling Thermal Ionization in Hypersonic Shock Tubes	High precision probing of laser-solid interaction with laser-accelerated electron beams
	R. Schram	Flux Ropes, Turbulence, and Collisionless Perpendicular Shock Waves	N. Mendoza	T. Giumayer
	Model based formation of Advanced Tokamak discharges	M Lazar		Quantum beamstrahlung: a platform to precisely probe strong-field QED
	F. Erikason	Kappa approach of the electron beam instabilities at the origin of radio emissions		A Hirsch
	First global simulations of ITER 15MA Q+10 baseline scenario with D and T treated separately in the SOL/divertor	Rharges Valdya		New helical coil design with controlled dispension for the post-acceleration and focusing of TNSA protons
	Luis GI (PhD prize)	Modelling Space Plasma in the Inner heliosphere and its impact on Earth's Magnetosphere		A Matheron
	Stationary ELM-free H-mode in ASDEX Upgrade	Kuldeep Singh		The £222 experiment at FACET-II: harnessing beam-plasma interaction for solid-density electron beams and extremely dense gamma-ray pulses
		Evolution of nonlinear electrostatic structures in the lunar wake region		K. Sugimato
		Steffy Sara Varghese		Positron generation and acceleration in a self-organized photon collider driven by ultra-short petawatt laser-plasma interaction
		Nonlinear structures in the Martian magnetosheath	J. Kobus	
			Radiative transfer simulations for in-situ diagnostic of reactive, particle growing plasmas	

		1		1 woot
			D. Heremann: Playna Polymerization -	
	H Reimendes: Results and implications of the TCV plasma exhaust (PEX) upgrade		Mechanisms, Applications and Impact on Related Fields	
10:40 session	MCF on edge, PWI, divertor	MCF:Core NHD and Exernetic Particles	LTDP-4: Plasma processing and plasma chemistry	BPIF Laser-plasma interaction and instabilities
		7	,	77
	kTilmann Luni	I: M. Falensi	LA Hinz	D. Turnbull
	Compact radiative divertor experiments at ASDEX Upgrade and their consequences for a reactor	Advanced energetic particle transport models	Magnetron Sputter Epitaxy: A Multi-Diagnostic Approach	Inverse Bremstrahlung Absorption
	tHenri Kumpulainen	I: M. Fitzgerald	IL. Valeto	1. Shaw
	Validated edge and core predictions of tungeten eropion and transport in JET ELMy H- mode plasmas	Clear observation of toroidal Alfvén eleenmode and Alfvén cascades driven by alpha particles during rece	Multiscale modeling of plasma-surface interactions	Raman amplification with a 1 × 1015 Wcm2 seed
	LObier Noter	H. Water	J. Han	A Nutter
	Investigating Negative-Triangularity Configurations as a Reactor Relevant Solution in the TCV Tokamak	Nonlinear simulation of energetic particle driven modes in ASDEX-Upgrade	Optimization of a negative oxygen ion beam	A steady-state approach to implementine laser-plasma instabilities in hydrodynamics codes
	Curdin Withrich	J.N. Sama	JS. Yoon	L. Zhichao
	Experimental characterization of divertor filamentary dependencies in TCV and comparison with first-principles turbulence s	in ion temperature gradient mode mitigation by energetic particles, mediated by forced- driven zonal flows	Physics-Informed Advanced Plasma Equipment/Process Control Technologies for Plasma Applications	Experimental campaign of laser plasma interaction on Shengtang Octopus laser facility
	Rui Ding	F. Porcelli	C. Jung	C. Rayer
	Study of W impurity transport in the boundary plasma of EAST with different divertor conditions	Responset aufsymmetric modes in tokarnak plasmas	Hydrogen-Nitrogen Mixed Arc Plaama on Direct toluene conversion into C ₂ product	Predicting the growth of backward stimulated Brillouin scattering of smoothed laser beams
		Z Lin	X Tang	
		Prediction of energetic particle confinement in ITER operation scenarios	Water treatment using low temperature plasma with packed bed reactor at atmospheric pressure	
12:40 end				
14:00 poster session				BPIF diagnostics

16:00 coffee	brake				
16:30 sessio		MCF:pedestal	BSAP:Basic and astrophysical plasma physics, chair T. Passot	LTDP joint with lab astro joint session with MCF and RPIF	V. Geppert-Kleinrath
			6		Signatures of ignition DT fusion gamma reaction history
		LL. Frankineti	I: Daniel Verscharen	Carolyn Kurang	F. Barbato
		Understanding pedestal structure, stability and turbulent transport in D, DT and T plasmas in JET-ILW.	Small-scale reconnection and kinetic instabilities in turbulent space plasmas	Creating Astrophysically Relevant Systems in the Laboratory in the High-Energy-Density Regime	X-ray synthetic diagnostics for ICF applications
		ki. Candy	E3êrôme Gullet	F. Faza	K Fleck
		H-Isotope Mass Scaling of Multiscale Transport in H-mode Pedestals	Magnetars: the role of the magnetorotational instability and of the convective dynamo	Energy partition in collaionless shocks: a microphysical perspective	A spectroscopy method for high-energy photons in intense fields
		k1. Schwitz	1. De Jonghe	LJP. Gam	Y. Mankovska
		Improving H-Mode Access and Resilience for ITER Pre-Fusion Operation	MHD spectroscopic analysis of the resistive tearing growth rate under the influence of background flow	Similarities between nuclear fusion reactors and space vehicles	Spatiotemporal beam-plasma instabilities in the ultrarelativistic regime
		Myriam Harned	V. López-Barquero	LX. Wang	V. Bouffetier
		A reduced transport model for microtearing modes in tokamak H-mode pedestal	Chaos, Magnetic Fields, and the Cosmic Ray Anisotropy	Nonadiabatic frequency chirping Alfwin mode in Fusion plasmas	Developing X-Ray Phase-Contrast Imaging for High-Energy Density Hydrodynamics Applications
		M. Maslov	P. J. Bilbao		M. Ehret
		ELMv H-mode Helium plasma at JET-ILW	Coherent radiation via synchrotron cooled electron cyclotron maser emission		Guided Electromagnetic Discharge Pulses Driven by Short Intense Laser Pulses
			K. M. Schoeffler		
			Limits on the compression of magnetic islands, a source of synchrotron radiation bunts in PIC simulations of	f strong-field 3D relativistic magnetic reconnection.	

plenary	MG	2149	LTDP	
		1		BPIF Laser and plasma based radiation and praticle sources
	G. T. Roberg-Clark: Turbulence-optimized stellarator designs with improved ion confinement			
10:40 session	MCF: HCD & Innovative data analysis techniques	85AP.Laboratory Astrophysics, chair: Kuranz, Swadline or Remineton	LTDP:duty playmas	
		6		6 EV. Maka
	Lipree Morales	ILan Gao	L Y. Ferra	Fertipsecond electron microscopy of the laser-olasma wakefield
	improving physical understanding and plasma performances with extensive experimental data analyses in WEST	Direct measurement of non-thermal electron acceleration from magnetically driven reconnection in :	Transition between liquid-like to gas-like states in super critical fluid complex plasmas from the transport transitions	15. Martni
	Markus WELAND	C. D. Anowamith	L J. Beckers	Efficient electron acceleration via laser interaction with an over-dense plasma wedge
	Real-time control of NBI fast ions, current-drive and heating properties.	Laboratory Plaama Astrophysics at CERN	Laser-induced photodetachment for anions and particle (de-)charging diagnostics in low pressure nanoddusty plasmas	L. Reichsein
	Area MEDVEDEVA		J. Goree	Spin-colarized ion bearra from laser-plasma interaction
	Dieltal twin of tokamak diamontics for heat exhaust and confinement prediction	L.G. Sutle	Revenues the dust charge polarity in a plasma afterniow	PHD prize
	Brhart DINCETD	Magnetized collisionless shock experiments, using a pulsed power driven	A. Menzel	
	Latest Het-Power Helicon Experimental Results from DII-D	magnetic platon from an exploding wire array	Electron sticking of dielectric and metallic surfaces in the plasma sheath	F. Brun
	Á. SÁNCHEZ VILLAR	L: Y. Wang	5. Wohlfahrt	Gamma photon and electron-opaitron production on the PETAL laser facility
	ICRF wave propagation and absorption modeling via machine learning	Experimental observation of the atardard magnetorotational instability in a modified Taylor-Couette	Size evolution and plasma-particle interaction of sinele MF particles in the plasma sheath	V. btokakaja
	Tantas (TAM/2	IE. Octa	P. Bandycohadhyay	A multi-MeV aloha particle source from proton-Boron fusion reactions using a 10 GW tabletop laser.
	Performance of the ECRH system of Wendelstein 7-X with resard to long pulse operation and high performance plasmas in the	Ponderomotive Recoil for Electromacnetic Waves	Experimental observations of fore-wake phenomena in between two charged object in flowing dusty plasmas	
	101801800	J.F. One		
	Parameterisation of Microwave Beam Broadenine by Plasma Density Turbulence	Utrahigh-Pressure Generation in the Relativistic Transparency Regime in Laser Irradiated Nar	and a second	
	Parameterization of microwaye man in caloring of Parameterization of the	Anaballa Anarrio	contra	
2:40 end		Adiabatic-radiative shock systems in astrochysical lets: from the camma-ray sky to the laboratory		
4:00 postersession				nor -
6:00 coffeebrake				
6:30 pierary	ME	N/10	ITTOP	shartarri
2.30 perag	and a		A LEY	Supervise Remarks and their interaction with external agents in the laboratory, how it structure the GM
		-		and the second sec

02:00 opening ceremony 02:40 alfven price lecture 10:20 colles brake percentary session 12:30 lunch 14:00 poster session 16:00 colles brake 16:30 session