B. STELLARATORS

Electron cyclotron radiation (ECR) as in the L-2 stellarator. First author: D.K. Akulina	ymmetry measu	rements at 2 ω _{He}						
First author: D.M. Akuma	Th 55	B 1	П-431					
Confinement studies of ECRH plasma First author: G.D. Conway et al.	ıs in a toroidal l	neliac.						
	Th 56	B 2	II-435					
Measurements of the fast ion distribution during neutral beam injection and ion cyclotron heating in ATF.								
First author: M.R. Wade et al.	Th 57	В 3	П-439					
Bootstrap current studies in the Advan	ced Toroidal Fa	acility.						
rust aumor. W. Warakann et al.	Th 58	B 4*	II-443					
Impurity transport in ATF and the effective first author: L.D. Horton et al.	ect of controlled	l impurity injection.						
	Th 59	B 5	II-447					
Transport study on ECH- and NBI- he system CHS.	ated plasmas in	the low-aspect-ratio	nelical					
First author: H. Iguchi et al.	Th 60	В 6	II-451					
Cleanup and improvement of operational performance of ATF by chromium and titanium gettering.								
First author: R.C. Isler et al.	Th 61	В7	II-455					
Confinement and stability on Heliotron First author: K. Kondo et al.	n E plasma.							
First author: A. Rondo et al.	Th 62	В 8	П-459					
Efficiency of electron-cyclotron plasm First author: Eh.D. Andryukhina et		L-2 stellarator.						
2 11 00 datalor. Dil.D. 1 mary anima or	Fr 49	В 9	II-463					
Ray tracing during ECRH by X-wave First author: K.M. Likin et al.	on the second h	armonic of ω _{ce} in L-2	2 stellarator.					
and united and and and and and and and and and an	Fr 50	B 10	II-467					
Particle transport and recycling studies First author: F. Sardei et al.	on the W VII-	AS stellarator.						
	Fr 51	B 11	II-471					

^{*}This paper will also be presented orally on Tuesday 26 June at 14.50 hrs.

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П-521

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B 24

B 25

B 26

B 27

H _α -spectroscopy on WVII-AS.					On the edge structure of the W VII-AS s First author: F. Rau et al.	tellarator.	
	First author: A. Dodhy et al.	Fr 52	B 12	II-475	The desirer in the end of the	Fr 57	ł
	Results from X-ray measurements on the First author: A. Weller et al.	Wendelstein W7-	AS stellarator.		Physics studies for the H-1 heliac. First author: B.D. Blackwell et al.		
	First author: A. Weller et al.	Fr 53	B 13	II-479	The desired 212. 21000.	Fr 58	I
	First results with neutral injection into W First author: W. Ott et al.	VII-AS stellarato	r.		Study of plasma equilibrium currents in First author: V.N. Kalyuzhnyj et al.	an 1=3 torsatron.	
	riist author. W. Ou et al.	Fr 54	B 14	П-483	This advisor to the company of the	Fr 59]
	Statistical analysis of electron heat condu- First author: G. Kühner et al.	action on W7-AS.			Impurity flux reversal in 1=2 torsatrons First author: D.L. Grekov et al.	using RF heating.	
	rirst author: O. Runner et al.	Fr 48	B 15	II-484	A MOUNTAIN COUNTY	Fr 60	I
	Two-ion ICRH heating in the flexible he First author: J.F. Miramar Blázquez	liac TJ-II.					
	First author: J.F. Milamai Biazquez	Th 63	B 16	II-488			
	Influence of TJ-II flexibility upon ECRI-	I.					
	First author: F Castejón et al.	Th 64	B 17	П-489			
	Ideal interchange stability boundaries for First author: L. García	stellarator configu	urations.				
	First author: L. Garcia	Th 65	B 18	II-493			
	Self-stabilization of ideal modes in a heli- First author: C. Alejaldre et al.	ac.					
	First author: C. Alejaidie et al.	Th 66	В 19*	II-497			
	Determination of Boozer magnetic coord First author: A. López Fraguas et al.	inates.					
	rirst author: A. Lopez Fraguas et al.	Th 67	B 20	II-501			
	Bootstrap currents in heliac TJ-II configu						
	First author: A. Rodríguez Yunta et al	Th 68	B 21	II-505			
	Equilibrium and stability of high t TJ-II	configurations.					
	First author: A. López Fraguas et al.	Fr 55	B 22	II-509			
	A general theory of LMFP neoclassical t	ransport in stellara	tors.				
	First author: C.D. Beidler	Fr 56	B 23	II-513			

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C. ALTERNATIVE MAGNET	IC CONFINE	MENT SCHEMES		Relaxation, reconnection and the MHD First author: D.A. Kitson et al.	dynamo.			
Ion temperature measurements on the First author: L. Carraro et al.	ETA-BETA II R	FP.		FIFST author. D.A. Kitson et al.	Th 73	C 12	II-577	
THE dumon D. Cartaro et al.	Tu 53	C 1*	II-533	Magnetic and electrostatic fluctuation r First author: K.F. Schoenberg et al.	measurements on the ZT-40M reversed field pinch.			
Carbon emission measurements on the First author: M.E. Puiatti et al.	RFP ETA-BET	A II.		This was	Th 74	C 13	II-581	
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Shell gap modification and limiter ins First author: S. Shinohara et al.					Th 75	C 14	II-585	
	Tu 55	C 3	II-541	MHD stability of a plasma with anisotr First author: V.V. Arsenin	-			
Observations of high energy electrons First author: Y. Yagi et al.		-			Tu 60	C 15	II-589	
	Tu 56	C 4	II-545	Hot electron plasmas instabilities in op First author: M.I. Belavin et al.	-		** ***	
Coherent soft X-ray oscillations and n First author: Y. Shimazu et al.	nagnetic flux rego Tu 57				Tu 61	C 16	II-593	
	C 5	II-549	Self organization of wave coupling at S SK/CG-2.	K/CG-1 machi	ne and conceptual desig	n of		
Impurity ion temperature and rotations First author: R.A. Bamford et al.	•			First author: S. Sinman et al.	Tu 62	C 17	II-597	
Ion heating and confinement in the HB First author: P.G. Carolan et al.	Tu 58	C 6	II-553	FRC: TC-I machine results. First author: M. Machida et al.				
			II-557	First author. Mr. Machiga et al.	Tu 63	C 18	II-601	
Tu 59 C 7**			11-557	Study of an FRC with n=1 external per First author: B.A. Nelson et al.	perturbations.			
Ion power loss in the HBTX1C Rever First author: K.J. Gibson et al.	Th 69	C 8	II-561	rigi addio: D.7 i. Nolson et al.	Tu 64	C 19	II-605	
RFP plasma resistance following laser			11-301	Optimization of pulse plasma production First author: L.I. Rudakov et al.				
First author: B. Alper et al.	Th 70	С9	II-565		Tu 65	C 20	II 609	
Particle confinement in the HBTX1C			H 303	Extrap L-1 experimental stability. First author: J. Scheffel et al.				
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High current density toroidal pinch dis				Dense plasma heating in a mirror trap of beam.	uring injection	of 100 kJ microsecond	electron	
First author: J.R. Drake et al.	Th 72	C 11	II-573	First author: A.V. Burdakov et al.	Th 76	C 22	II-614	
				On possibility of creating MHD-stable	plasma distribut	tion in axisymmetric par	raxial	
* This paper will also be presented ** This paper will also be presented	i orally on Thurs i orally on Thurs	sday 28 June at 13.30 hrs. sday 28 June at 13.50 hrs.		mirror. First author: S.V. Kuz'min et al.				
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Magnetic and Langmuir probe measure First author: D.A. Kitson et al.	ements in the SPH	EX spheromak.		D. MAGNETIC CONFINEMEN	T THEORY A	ND MODELLING		
First author: D.A. Kitson et al.	Th 78	C 24	II-622	Turbulent drift of electrons across a ma	across a magnetic field: the effect of an average electric field.			
Magnetic field configuration of FBX-II First author: M. Irie et al.	spherical torus.			First author: M.B. Isichenko et al.	Tu 98	D 1	II-667	
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Correlation between magnetic tearing a First author: H.M. Soliman et al.	nd X-ray emission	in coaxial discharges.		First author: A.B. Arutiunov et al.	Tu 99	D 2	II-671	
2 30 4441101 0 211241 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Th 80	C 26	П-630	Assemble magnetic guidance in TDD 1 to		22	0, -	
Specific operational modes of high-currents author: M. Sadowski et al.	rent pinch dischar	ges.		Average magnetic surfaces in TBR-1 to First author: S.J. de Camargo et al.	ти 100	D 3	II-675	
riist autilor. W. Saudwski et al.	Th 81	C 27	II-634				H-075	
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First author: M. Heindler et al.	Th 82	C 28	П-638		Tu 101	D 4		
Self-similar dynamics of fiber initiated high-density Z-pinch.			Drift dissipative instabilities in a two electron temperature plasma. First author: M. Bose et al.					
First author: M.A. Liberman et al.	Fr 61	C 29	II-639		Tu 102	D 5	II-684	
Improved understanding of current drive and confinement in spheromaks.			Effects of ripple losses on fusion alpha particle distributions. First author: G. Kamelander					
First author: R.M. Mayo et al.	Fr 62	C 30	II-643		Tu 103	D 6	II-685	
Diffusion-driven currents in a Z-pinch.				Stationary spectra of short-wave low-frequency fluctuations in a finite-beta plasma. First author: P.P. Sosenko et al.				
First author: B. Lehnert	Fr 63	C 31	II-647	rust author. 1.1. bosomo et al.	Tu 104	D7	II-686	
			11-047		bations on the numerically derived diffusion			
Passage of powerful current pulses through First author: L.E. Aranchuk et al.	ough plasma layer.			coefficient for the fast alpha particles. First author: E. Bittoni et al.				
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First author: M.A. Liberman et al.	T. ((0.24	TI (50	First author: N. Mattor et al.	Tu 107	D 10*	II-695	
The dense Z-pinch project at Imperial C	Fr 66 College	C 34	II-659	On self-consistent distribution function axisymmetric tokamak.	of high-energy al	pha particles in		
First author: M.G. Haines et al.	Fr 67	C 35	II-663	First author: V.A. Yavorskij et al.	Tu 108	D 11	II-699	

^{*}This paper will also be presented orally on Thursday 28 June at 14.10 hrs.

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Magnetic island self-sustainment by finite Larmor radius effect. First author: M. Hugon et al.				The neoclassical effects on resistive MHD modes in general toroidal geometry. First author: Duk-in Choi et al.				
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	Tu 110	D 13	II-707	First author: W. Diljonom	Th 103	D 26	II-756	
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,	Th 93	D 16	II-719	aspect ratio. First author: F. Alladio et al.	o contaminant in s	contrators as a function of th	icii	
Toroidal η _i -mode turbulence with colli First author: A. Jarmén et al.	sional trapped elec	ctron effects.		• • • • • • • • • • • • • • • • • • •	Th 106	D 29	II-765	
rnst author. A. Jannen et al.	Th 94	D 17	II-723	Collisionless two-fluid theory of toroida First author: J.P. Mondt et al.	al η_i stability.			
The anomalous resistivity in the neutral sheet of the magnetotail. Guilding center theory in the reversed magnetic geometry.			rust author. 3.1. Pronti et al.	Th 107	D 30	II-769		
First author: Jian-lin MU et al.	Th 95	D 18	II-727	Modelling of transport in stochastic magnetic field regions. First author: M.A. Hellberg et al.				
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^{*} This paper will also be presented orally on Thursday 28 June at 14.50 hrs.

** This paper will also be presented orally on Thursday 28 June at 15.10 hrs.

^{*}This paper will also be presented orally on Thursday 28 June at 14.30 hrs.

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rust author. II. Daty et al.	Th 117	D 61	II-889	Past author in Borongor of al.	Fr 112	D 74	П-	
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Global, resistive stability analysis in ax First author: A. Bondeson et al.	isymmetric syster	ns.		First author: C.G. Schultz et al.	Fr 117	D 79	П-	
riist autilor. 11. Donacson et al.	Th 122	D 66	II-906	Influence of an X-point and its poloida	l location on the	deal MHD stability of a		
Alpha-particle driven MHD instabilities in ignited tokamaks.			quasi-circular tokamak. First author: A. Roy et al.					
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To the question of adiabatic R-compression in tokamak.				Simulation of MHD activity during density limit disruptions in JET. First author: R. Parker et al.				
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First author: H.J. de Blank	Fr 108	D 70	II-919		Fr 121	D 83	II-	
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First author: Oh Jin KWÔN et al.	Fr 110	D 72	II-927					
Global ideal MHD stability of 3D plasn	nas with pseudo-v	acuum treatment for free-						
boundary modes. First author: U. Schwenn et al.								
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