

Submitting Author Last Name	Submitting Author First Name	Abstract Title	Poster #	poster session	Poster Board #
Ballinger	Sean	Fast-camera imaging of edge turbulence on Alcator C-Mod and W7-X	7	Monday	1
Boeyaert	Dieter	SOLPS-ITER simulations of Ne-impurity experiments on EAST	11	Monday	2
Chang	Mingyu	The effects of particle recycling on the divertor plasma by a PIC-MCC modelling	16	Monday	3
Coster	David	Exploring the use of Gaussian Process Regression for interpolating SOLPS simulations	21	Monday	4
Ding	Fang	The effects of tungsten divertor on H-mode access and detachment in EAST	25	Monday	5
Gray	Travis	Evolution of divertor plasmas in EAST with lithium aerosol injection	35	Monday	6
Holm	Andreas	Evaluating the impact of molecules on DIII-D divertor target heat flux densities using UEDGE	40	Monday	7
James	Simpson	Dependence of the upstream separatrix temperature on impurity seeding and separatrix density in EDGE2D-EIRENE simulations for JET H-mode plasmas	46	Monday	8
Kobayashi	Taisuke	Effects of stochastic magnetic field structure on edge impurity emission distribution in LHD	52	Monday	9
Lore	Jeremy	Modeling non-axisymmetry in the DIII-D small angle slot divertor using EMC3-EIRENE	57	Monday	10
Park	Jae-Sun	SOLPS-ITER analysis of L-mode KSTAR divertor detachment experiments	68	Monday	11
Spolaore	Monica	Current density features associated to Type-I and Type-III ELMs in COMPASS tokamak	78	Monday	12
Tanaka	Hirohiko	Analysis of indefinite multi-peak divertor footprint with proper orthogonal decomposition	83	Monday	13
TOUCHARD	SYLVAIN	AMMONX: a kinetic ammonia production scheme for EIRENE implementation	88	Monday	14
Zagorski	Roman	TECXY simulations of the ITER divertor	101	Monday	15
Borodin	Dmitriy	Improved ERO modelling of beryllium erosion at ITER upper first wall panel using JET ILW and PISCES-B experience	107	Monday	16
Krivska	Alena	RF Sheath Modeling of Spectroscopically Observed Plasma Surface Interactions with the JET ITER-Like Antenna	111	Monday	17
Borodkina	Irina	Analytical investigation of W sputtering in quasi-steady-state ELMy conditions at JET ITER-like Wall	121	Monday	18
Donovan	David	Deposition Profile Analysis of Enriched Isotopic Tungsten Tracer Particles from DIII-D Metal Rings Campaign Outer-Midplane Collector Probes	125	Monday	19
Sun	Jizhong	Numerical study of Li species transport in edge plasma during lithium granule injection	141	Monday	20
Arakcheev	Aleksey	Calculation of mechanical stresses and deformations near crack caused by pulsed heat load	148	Monday	21

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Ding	Rui	Model validation on DIII-D experiments towards understanding of high-Z material erosion and migration in a mixed materials environment	158	Monday	22
Jepu	Ionut	Beryllium melting and erosion on the upper dump plates in JET facility during three ILW campaigns	168	Monday	23
Kreter	Arkadi	In-situ observation of reduced sputtering of nano-structured surfaces	173	Monday	24
Pardanaud	Cedric	JET Be limiter tiles chemical bonding characterization by means of Raman microscopy and comparison with laboratory Be based samples: Be-O and BeOxDy identification	183	Monday	25
Ratynskaia	Svetlana	Interaction of adhered beryllium-proxy dust with transient plasma heat loads	187	Monday	26
Vasilyev	Alexandr	Dynamics of cracks and hot spots formation observed on tungsten surface under transient thermal loads relevant to ITER divertor under transient thermal loads relevant to ITER divertor	199	Monday	27
Weckmann	Armin	TEXTOR whole-tokamak high-Z migration modelling and parameter studies with ASCOT code	204	Monday	28
Blondel	Sophie	Effect of Bursting Process on Helium Bubble Evolution in the PISCES Experiments with Cluster Dynamics	211	Monday	29
Campanell	Michael	Breakdown of the Conventional Sheath Models Under Strong Thermionic Emission: Application to Divertors, Probes, and Other Devices	215	Monday	30
Dellasega	David	Synthesis of porous and nano W,W-O-N, WNx and W-O coatings for plasma surface interaction studies	222	Monday	31
Hill	Christian	Activities at IAEA on data for plasma-material interaction in fusion devices	233	Monday	32
Ito	Atsushi	Development of BCA-MD-KMC multi-hybrid simulation method for fuzzy nanostructure formation	237	Monday	33
Lasa	Ane	Multi-physics modeling of the evolution of surfaces exposed to steady-state plasmas	246	Monday	34
Mayer	Matej	Tungsten surface enrichment in EUROFER and Fe-W model systems studied by high-resolution ToF-RBS	250	Monday	35
Scime	Earl	3D measurements and simulations of ion and neutral velocity distribution functions in the boundary of a magnetized plasma	259	Monday	36
Shaw	Guinevere	Parametric Investigation of Helium and Deuterium Concentrations in Tungsten Using Laser-based Techniques	260	Monday	37
von Toussant	udo	Dynamic changes of sputtering and reflection yields upon energetic particle bombardment of self-consistently evolving 3-D surface morphologies	266	Monday	38

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Bedoya	Felipe	Oxygen retention in boronized carbon surfaces and its dependence on plasma exposure in the National Spherical Torus Experiment-Upgrade (NSTX-U) investigated with the Materials Analysis Particle Probe (MAPP)	277	Monday	39
Grisolia	Christian	ps-LIBS diagnostics for tritium measurements in W	283	Monday	40
NISHINO	NOBUHIRO	Estimation of three-dimensional structure on peripheral fluctuation using fast camera images and magnetic field calculation in Heliotron J	293	Monday	41
Shikama	Taiichi	Measurement of the ion species dependence of the intrinsic edge rotation in spherical tokamak QUEST	297	Monday	42
Veis	Pavel	Simultaneous vacuum UV and broadband UV-NIR spectroscopy for improvement of LIBS characterization of LiSn alloy	301	Monday	43
Zhao	D	In-situ diagnosis of the first wall in nuclear fusion devices by Laser-Induced Breakdown Spectroscopy combined with Laser Speckle Interferometry	306	Monday	44
Fisher	Adam	Study of Surface Stability for Advanced Liquid Metal Divertors	321	Monday	45
Kapat	Aveek	Deciphering hydrogen isotope retention and sputtering in liquid metal-porous tungsten hybrid materials	326	Monday	46
Li	Muyuan	Avoiding deep cracking in tungsten divertor armor under high heat flux loads	331	Monday	47
Neu	Rudolf	Exposure of actively cooled ITER divertor mock-ups in ASDEX Upgrade	337	Monday	48
Rindt	Peter	Two order of magnitude stress reduction in a 3D-printed tungsten, liquid lithium divertor target	343	Monday	49
Xu	Yue	Effects of double-layer tungsten coatings on hydrogen isotopes plasma- and gas-driven permeation through F82H	355	Monday	50
Bang	Eunnam	Measurements of gap deposition profiles of different shapes of castellated tungsten blocks in KSTAR	362	Monday	51
Bonnin	Xavier	SOLPS-ITER analysis of nitrogen seeding interruption in JET H-modes	368	Monday	52
Dai	Shuyu	3D modelling of the helium retention on a fuzzy tungsten surface morphology	373	Monday	53
Holzner	Georg	Determining fundamental transport parameters of hydrogen isotopes in tungsten	381	Monday	54
Likonen	Jari	Investigation of deuterium trapping and release in the JET divertor during the third ILW campaign using TDS and TMAP	389	Monday	55
Martynova	Yulia	Impact of Kr and Ar seeding on D retention in ferritic-martensitic steels after high fluence plasma exposure	394	Monday	56

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Ou	Wei	Deuterium retention in tin exposed to fusion-relevant flux plasmas	399	Monday	57
Shimada	Masashi	Improved Tritium Retention Modeling with Reaction-Diffusion Code Tritium Migration Analysis Program (TMAP)	404	Monday	58
TYNAN	George	Implications of PMI and wall material choice on fusion-reactor tritium self-sufficiency	410	Monday	59
Yuan	Yue	Irradiation effect in tungsten resulting from ultra-high fluence deuterium plasma exposure in linear plasma devices STEP and Magnum-PSI	420	Monday	60
Zhou	Haishan	Studies on hydrogen isotopes transport through ITER-like PFCs	424	Monday	61
Asakura	Nobuyuki	Simulation Study of the Divertor Operation for a DEMO Fusion Reactor	429	Monday	62
Casali	Livia	SOLPS modelling of detachment in the new Small Angle Slot divertor in the DIII-D tokamak	435	Monday	63
Covele	Brent	Principles of Closure in the DIII-D SAS 2 Divertor for Optimal Heat Dissipation and Particle Control	439	Monday	64
Innocente	Paolo	Modeling of power exhaust in DEMO alternative divertor configurations with SOLEDGE2D-EIRENE	449	Monday	65
Kobayashi	Masahiro	Change of confinement mode during detachment transition with RMP application in LHD	454	Monday	66
Lunt	Tilman	Snowflake- and X-Divertor configurations in TCV and the future upper divertor of ASDEX Upgrade	461	Monday	67
Nakashima	Yousuke	Impact of additional plasma heating on detached plasma formation in divertor simulation experiments using the GAMMA 10PDX tandem mirror	466	Monday	68
Orchard	Simon	Improved understanding of detachment on JET through improved camera tomography	470	Monday	69
Soukhanovski	Vsevolod	Divertor detachment optimization in an unfavorable open geometry horizontal target divertor configuration in NSTX and NSTX-U.	479	Monday	70
Takimoto	Toshikio	Effects of curved divergent magnetic field on heat load in the linear divertor simulator TPD-Sheet IV	483	Monday	71
Verhaegh	Kevin	New insights into the physics and dynamics of divertor ion current loss during divertor detachment in TCV	487	Monday	72
XIANG	LINGYAN	Turbulent Transport Integrated Numerical Studies of Power Exhaust in H-mode Plasma Boundary in Tokamaks	491	Monday	73
Goriaev	Andrei	Development and optimization of He Electron Cyclotron Resonance Heating and He Glow Discharge wall conditioning scenarios for W7-X.	498	Monday	74
Abe	Shota	Ammonia Molecular Assisted Recombination processes in nitrogen seeded deuterium plasmas	2	Tuesday	1

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Ali	Adnan	Initial Results from the Hotspot Detection Scheme for Protection of Plasma Facing Components in Wendelstein 7-X	3	Tuesday	2
Baschetti	Serafina	Effects of the electrostatic shear on the edge plasma in a two-field kappa-epsilon like model implemented in the transport code SOLEDGE2D-EIRENE	8	Tuesday	3
Bozhenkov	Sergey	Measurement and correction of the b11 error field for W7-X island divertor configurations	12	Tuesday	4
Chen	YiPing	Simulations of SOL-Divertor Plasmas in EAST with Tungsten Divertor	18	Tuesday	5
Dekeyser	Wouter	Implementation of a 9-point stencil in SOLPS-ITER and implications for Alcator C-Mod divertor plasma simulations	22	Tuesday	6
Fan	Dong-Mei	Effect of turbulent fluctuations on neutral particles transport with the TOKAM3X-EIRENE turbulence code	27	Tuesday	7
Frerichs	Heinke	Advancements in 3D neutral gas and edge plasma modeling of resonant magnetic perturbations in ITER and their implications for fueling and exhaust	31	Tuesday	8
Groth	Mathias	Impact of molecular deuterium on the particle and power balance in DIII-D detached divertor plasmas	36	Tuesday	9
HONG	Suk-Ho	Infra-red observations of ELM loading on toroidal gap edges of tungsten castellated blocks in the KSTAR divertor	41	Tuesday	11
Laggner	Florian	Inter-ELM pedestal fluctuations and their parametric (in-)dependencies	54	Tuesday	12
Lunsford	Robert	Utilization of impurity granule induced ELM triggering in next step fusion devices	58	Tuesday	13
Maurizio	Roberto	The effect of the secondary x-point on the Scrape-Off Layer transport in the TCV Snowflake Minus divertor	63	Tuesday	14
Moser	Auna	The role of trapped neutrals in detachment onset and pedestal fueling studies on DIII-D	64	Tuesday	15
Pericoli Ridolf	Vincenzo	Liquid Li and Sn as DTT divertor targets, comparison on their effects on the heat loads and SOL properties	69	Tuesday	16
Sang	Chaofeng	Effects of divertor target shape and baffling on plasma detachment: from current device to CFETR	75	Tuesday	17
Terakado	Akihiro	Reaction processes of molecular activated recombination leading to detachment of divertor simulation plasma in GAMMA 10PDX	85	Tuesday	18
Valentinuzzi	Matteo	Two-phases hybrid model for neutrals	90	Tuesday	19
Wiesen	Sven	Application of SOLPS-ITER edge plasma model to interpret seeded and unseeded JET H-mode discharges with metallic wall	95	Tuesday	20
XU	GUOLIANG	OEDGE-TRIM.SP simulations of inter- and intra-ELM tungsten erosion during DIII-D H-mode discharges	97	Tuesday	21

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Zhang	Pengfei	OEDGE simulation of W leakage from different divertor configurations in DIII-D H-mode discharges	102	Tuesday	22
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Kube	Ralph	Statistical properties of the heat flux on the outboard mid-plane wall in Alcator C-Mod	113	Tuesday	24
Brezinsek	Sebastijan	Chemically Assisted Physical Sputtering of Tungsten: identification via the 6Pi-6Sigma transition of WD in TEXTOR and ASDEX-Upgrade plasmas	122	Tuesday	25
Eksaeva	Alina	Predictive ERO2.0 modelling of surface roughness effect on W physical sputtering and re-deposition in the linear plasma device PSI-2	126	Tuesday	26
Iijima	Takaaki	Study on dynamic behavior of impurity transport along the magnetic field in detached plasma using linear plasma device.	130	Tuesday	27
Ivanova-Stanil	Irena	Analysis of the ramp-down phase of JET ILW discharges	131	Tuesday	28
Tian	Xie	Investigation of the impurity transport in edge plasma during the injection of the lithium powder in EAST by using EMC3-EIRENE	142	Tuesday	29
ARNAS	Cecile	High heat loads producing large size dust particles in Alcator C-Mod	149	Tuesday	30
Begrambekov	Leon	Influence of glow discharge wall conditioning on the performance of ITER first mirrors	153	Tuesday	31
Ferry	Sara	Measuring changes in the thermal and elastic properties of polycrystalline tungsten exposed to helium plasma using transient grating spectroscopy	159	Tuesday	32
Hu	Xunxiang	Thermal Stability of Tungsten Nanotendrils Grown Under Divertor-like Conditions	165	Tuesday	33
Johnson	Curtis	Measurements of Tungsten Erosion Using UV Emission from DIII-D and CTH Experiments	169	Tuesday	34
LEE	HOSUN	Carbon impurity transport study in an ECR Chamber by utilizing erosion and deposition of a-C:H thin layers	174	Tuesday	35
Nichols	Jacob	Global modeling of wall material migration following boronization in NSTX-U	180	Tuesday	36
Rudolph	Joshua	The effect of thermionic electron currents on molten tungsten splashing from melt pools	188	Tuesday	37
Sarkar	Sanjib	Video analysis of intrinsic dust events in Experimental Advanced Superconducting Tokamak (EAST)	191	Tuesday	38
Schamis	Hanna	Modeling of erosion and deposition on ITER diagnostic first mirrors during glow discharge cleaning	192	Tuesday	39

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Stroem	Petter	Co-deposition of deuterium and impurity atoms on wall probes in the divertor of JET with ITER-like wall	196	Tuesday	40
Vignitchouk	Ladislav	Survival and in-vessel redistribution of disruption-induced beryllium droplets in ITER	200	Tuesday	41
Wang	Yongqiang	Helium and hydrogen retention and migration on nanostructured tungsten surfaces	203	Tuesday	42
Youchison	Dennis	Plasma Exposures of a High-Conductivity Graphitic Foam for Plasma Facing Components	206	Tuesday	43
Bringuier	Stefan	Atomistic Insight into D and He Near-Surface Implantation and Sputtering of Cubic-SiC Crystallographic Surfaces	212	Tuesday	44
Cheng	Long	Retarded recrystallization of helium-exposed tungsten	217	Tuesday	45
Dickheuer	Sven	In-situ measurement of the spectral reflectance of mirror-like metallic surfaces during plasma exposition	223	Tuesday	46
Dominguez-G	Javier	Effects of surface temperature on the chemical sputtering of boronized and oxidized carbon surface irradiated by deuterium	225	Tuesday	47
Hiroaki	Nakamura	Optical Property of Nanostructured Tungsten for Plasma Emission Light	234	Tuesday	48
JAWORSKI	Michael	Effects of finite saturation in porous surface during particle bombardment	238	Tuesday	49
Kolasinski	Robert	A multi-technique analysis of helium plasma-induced surface modification of tungsten	242	Tuesday	50
Loch	Stuart	New atomic data for use in W and Mo erosion measurements	247	Tuesday	51
Moser	Lucas	Mirror cleaning of Be deposits with helium and deuterium	251	Tuesday	52
Rudakov	Dmitry	Impact of unipolar arcing on PFC surfaces in DIII-D divertor	257	Tuesday	53
Takayama	Arimichi	MD simulation of atomic-scale processes on self-irradiation of tungsten	262	Tuesday	54
Wielunska	Barbara	Radiation Damage and Deuterium Retention in Tungsten	267	Tuesday	55
Younkin	Timothy	Quantification and Sensitivity Analysis on the Effects of Uncertainty On Impurity Migration In PISCES-A	271	Tuesday	56
Beers	Clyde	Flux Measurements and SiC Erosion Experiments in Proto-MPEX	278	Tuesday	57
Oelmann	Jannis	Depth resolved analysis of hydrogen in W7-X graphite components using Laser-Induced Ablation-Quadrupole Mass Spectrometry (LIA-QMS)	294	Tuesday	58
Stotler	Daren	Shadowing Effects in Simulated Alcator C-Mod Gas Puff Imaging Data	298	Tuesday	59

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Verma	PRABAL SINGH	Sensitivity of coupled plasma fluid-neutral kinetic edge simulations to the magnetized plasma sheath model	91	Tuesday	60
Ando	Sosuke	Micro- and macro- elastic properties of tungsten fiber-reinforced tungsten composites probed by nano-indentation and laser ultrasonics	308	Tuesday	61
Chen	Wanqi	Relationship between spherical nanoindentation stress-strain curve and microstructure of He-implanted tungsten	317	Tuesday	62
Gerardin	Jonathan	Simplified heat load modeling for design of DEMO discrete limiter	322	Tuesday	63
Kolemen	Egemen	Fast Flowing Liquid Metal Divertors for Fusion	327	Tuesday	64
Krawczynska	Agnieszka	Impact of low-Z and high-Z ion-induced damage on the reflectivity molybdenum mirrors and sub-surface distribution of gas bubbles	328	Tuesday	65
Li	Yu	Experimental assessment and simulation of stress distribution in tungsten exposed to ITER-like steady-state and transient plasma	332	Tuesday	66
Parish	Chad	Advanced Electron Microscopy Method Development to Improve Characterization of Plasma-Surface Interactions	338	Tuesday	67
Rizkallah	Rabel	Initial testing of two liquid lithium based PFCs, LiMIT and FLiLi, inside a toroidal fusion device, HIDRA	344	Tuesday	68
Szott	Matthew	Investigation of TEMHD flow through large-pore metallic foams for use in plasma facing components	348	Tuesday	69
Terra	Alexis	Micro-structured tungsten; an advanced plasma-facing material	506	Tuesday	70
Yang	Tengfei	Plasma exposure behavior of molybdenum and graphite in the EAST tokamak	357	Tuesday	71
Baron-Wieche	Aleksandra	Fuel retention across the mid-plane of Outer and Inner Poloidal Limiters tiles in JET. Summary of JET-ILW campaigns ILW-1, ILW-2 and ILW-3	363	Tuesday	72
Boyle	Dennis	Enhanced plasma and surface capabilities with beam fueling and heating in the Lithium Tokamak Experiment-Beta (LTX-Beta)	369	Tuesday	73
Davis	James	Effects of Argon on Deuterium Retention in Polycrystalline Tungsten	374	Tuesday	74
Hakola	Antti	Production of ITER-relevant Be-containing laboratory samples for fuel retention investigations	378	Tuesday	75
Igaune	Ieva	Comparison of the structure of the plasma-facing surface and tritium accumulation in beryllium tiles from JET ILW campaigns 2011-2012 and 2013-2014	382	Tuesday	76
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Loarer	Thierry	Predictions for T retention in DT campaigns in JET ITER-Like Wall	390	Tuesday	78
Matveev	Dmitry	Modeling of H-D isotope-exchange in Be in UHV laboratory experiments	395	Tuesday	79
Oya	Makoto	Deuterium retention in neutron irradiated tungsten-rhenium alloy and potassium-doped tungsten	400	Tuesday	80
Smirnov	Roman	Model of hydrogen retention in tungsten with self-induced trap formation	407	Tuesday	81
Ueda	Yoshio	Hydrogen retention in MeV ion irradiated (H, Fe, W) and neutron irradiated tungsten	411	Tuesday	82
Yajima	Miyuki	Kinetics of Deuterium Penetration into Neutron-irradiated Tungsten	417	Tuesday	83
Zakharov	Leonid	Continuously Flowing Liquid Lithium as plasma facing divertor surface for tokamak and burning plasmas	421	Tuesday	84
Zibrov	Mikhail	Annealing and clustering of vacancies in tungsten and their influence on deuterium retention	425	Tuesday	85
Bernert	Matthias	High radiation scenarios and the X-point radiation regime at ASDEX Upgrade	430	Tuesday	86
Dudson	Ben	Detachment dynamics and sensitivity to control parameters in 1D simulations	441	Tuesday	87
Fil	Alexandre	Testing predictions of plasma detachment in TCV over a range in magnetic topologies through quantitative comparison to experiment	446	Tuesday	88
Islam	Shahinul	Effects of the Gas Puffing Neutral on the Plasma Parameters in the End-Cell of GAMMA 10PDX by using the Multi-Fluid Code LINDA	450	Tuesday	89
Koenig	Ralf	Observations of Strong Reduction of the Power Load onto the Island Divertor Targets of Wendelstein 7-X in the OP1.2a Experimental Campaign - Complete Stable detachment suspected	455	Tuesday	90
McLean	Adam	Power accounting using divertor extreme ultraviolet emission in the transition to detachment in DIII-D	463	Tuesday	10
Niemann	Holger	Power loads in the divertor phase of Wendelstein 7-X	467	Tuesday	91
Pan	Ou	SOLPS simulation for alternative upper divertor geometries in ASDEX Upgrade	471	Tuesday	92
Rognlien	Thomas	Simulations of a high-density, highly-radiating lithium divertor	476	Tuesday	93
Terry	James	Heat-flux Footprints at the Inner Divertor Target During I-mode on the Alcator C-Mod Tokamak	484	Tuesday	94
Thakur	Saikat	Spontaneous plasma detachment studies in divertor relevant helicon plasmas	436	Tuesday	95
Vincenzi	Pietro	Estimate of 3D wall heat loads due to Neutral Beam Injection in EU DEMO ramp-up phase	488	Tuesday	96
Zanino	Roberto	2D self-consistent modelling of a box-type liquid metal divertor for the DTT facility	492	Tuesday	97

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Ruzic	David	Can tritium be extracted from a flowing lithium divertor system fast enough	501	Tuesday	99
Apicella	Maria	First FTU Tin liquid limiter results and their interpretation with the edge plasma code TECXY	4	Thursday	1
Blommaert	Maarten	A Spatially Hybrid Fluid-Kinetic Neutral Model for SOLPS-ITER Plasma Edge Simulations	9	Thursday	2
CAO	Chengzhi	Simulation study on radiative divertor for HL-2M by impurity seeding with SOLPS-ITER	13	Thursday	3
Churchill	Michael	Pressure balance in a low collisionality tokamak scrape-off layer	19	Thursday	4
Denis	Julien	Impact of dynamic desorption on the edge plasma modelling of JET H-mode discharge	23	Thursday	5
Feng	Yuhe	Recent progress in implementing ExB drift in EMC3-Eirene	29	Thursday	6
Gan	Kaifu	Divertor heat flux broadening induced by edge coherent mode in EAST	33	Thursday	7
Hasegawa	Hiroki	Impurity Ion Transport by Filamentary Plasma Structures	38	Thursday	8
Horsten	Niels	Hybrid fluid-kinetic neutral model for a 2D detached ITER case	42	Thursday	9
Karhunen	Juuso	SOLPS 5.0 simulations of the inner divertor detachment of L-mode plasmas in ASDEX Upgrade with convection-dominated radial SOL transport	50	Thursday	10
Leonard	Anthony	Parallel Energy Transport in Detached DIII-D Divertor Plasmas	55	Thursday	11
Mao	Shifeng	Simulation study of the relation between Prad, Zeff and lifetime of W target for CFETR phase II with Ne and Ar seeding	60	Thursday	12
Nespoli	Federico	Misalignment of particle and heat fluxes at the divertor plate: numerical modeling coupling turbulence and transport codes	65	Thursday	13
Petrie	Thomas	High Performance Double-null Plasmas Under Radiating Mantle Scenarios on DIII-D	70	Thursday	14
Schlisio	Georg	First gas balance studies in Wendelstein 7-X operating with inertially cooled graphite divertor	76	Thursday	15
Stegmeir	Andreas	Numerical study of turbulence in presence of an X-point with the flux-coordinate independent approach	80	Thursday	16
Thatipamula	Shekar	Inter ELM coherent fluctuations in divertor Langmuir probe ion saturation current in KSTAR tokamak	86	Thursday	17
Yang	Fan	Rayleigh-Taylor instability of a liquid metal film with magnetohydrodynamic effects	99	Thursday	18

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Scotti	Filippo	Scrape-off layer and near-separatrix divertor turbulence in NSTX and NSTX-U discharges	116	Thursday	20
Bufferand	Hugo	Investigation of impurity transport with turbulent simulations on WEST	123	Thursday	21
Elder	John	Evidence of near-SOL tungsten accumulation using far-SOL collector probes and OEDGE Modeling in a DIII-D Metal Rings L-mode discharge	127	Thursday	22
Kuzmin	Arseniy	Measurements of the impurity flow velocity and temperature in a wide plasma parameter range for Deuterium and Hydrogen plasmas in the divertor legs of the stochastic layer in LHD	132	Thursday	23
Shoji	Mamoru	Impurity transport simulation in the peripheral plasma in the Large Helical Device with tungsten closed helical divertor	139	Thursday	24
Unterberg	Ezekial	Characterization of tungsten divertor sources and upstream edge plasma contamination using isotopic tracers in the DIII-D metal tile campaign	143	Thursday	25
Arrendo	Rodrio	Angle-dependent sputter-yield measurements of keV D ions on Fe and W with a new high-current ion source	150	Thursday	26
Brochard	Frederic	Spatial distribution of dust events in ASDEX Upgrade studied by fast imaging	154	Thursday	27
Gonzalez del F	Beatriz	First Principles Molecular Dynamics Study of the Liquid LiSn Surface as a Plasma-Facing Component	160	Thursday	28
Hwangbo	Dogyun	Growth process of nano-tendril bundles with sputtered tungsten	166	Thursday	29
Kelemen	Mitja	Angular dependence of Fe sputtering by Ar ions at polished and rough surfaces	170	Thursday	30
Liu	Dongping	Surface diffusion and growth of W self-interstitials during low energy and large flux H and He ion irradiations of polycrystalline W	175	Thursday	31
Nishijima	Daisuke	Influence of heavier impurity deposition on Cr sputtering under He plasma exposure in multiple linear plasma devices	181	Thursday	32
Petersson	Per	Impact of moisture on the disintegration of co-deposited layers and on dust generation: reactor safety case.	185	Thursday	33
Schmid	Klaus	3D global impurity transport modeling with WalldYN and EMC3-Eirene	193	Thursday	34
Stadlmayr	Reinhard	Impact of surface roughness on the erosion of fusion relevant materials: comparison of experiment to morphology sensitive Monte-Carlo BCA codes	195	Thursday	35

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TOKITANI	Masayuki	Demonstration of suppression of the dust generation and partly reduction of the hydrogen retention by tungsten coated graphite divertor tiles in LHD	197	Thursday	36
WANG	Erhui	First spectroscopic measurements of carbon erosion and transport in the divertor plasma of W7-X	202	Thursday	37
BI	HAILIN	Deuterium transport in a flowing liquid lithium loop under plasma bombardment	210	Thursday	62
Budaev	Viacheslav	Nonambipolar mechanism of plasma facing material heating under very high heat loads	213	Thursday	38
Chrobak	Christopher	Modeling of Aluminum Sputtering and Ionization in the DIII-D Divertor Including Magnetic Pre-Sheath Effects	218	Thursday	39
Dittmar	Timo	The influence of nitrogen seeding on the beryllium erosion in JET	224	Thursday	40
Drobny	Jon	Statistical modeling of surface morphology for multi-scale simulations of plasma-surface interactions	226	Thursday	41
Gao	Liang	Uptake of Low-energy Neutral Deuterium Species in Sputter-deposited Tungsten Films due to Plasma Loading	230	Thursday	42
Kajita	Shin	Directional growth of large scale nanostructures on metallic co-deposition layer	239	Thursday	43
Kraus	Brian	Floating potential of emitting surfaces in plasmas with respect to the space potential	243	Thursday	44
Lombardi	Guillaume	Blistering and hydrogen retention in poly- and single crystals of ITER relevant materials by a joint experimental-modeling approach	248	Thursday	45
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