

# **40th EPS Conference on Plasma Physics**

## **(EPS 2013)**

**Europhysics Conference Abstracts Vol. 37D**

**Espoo, Finland**  
**1 - 5 July 2013**

**Part 1 of 2**

**ISBN: 978-1-63266-310-8**

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2013) by the European Physical Society (EPS)  
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the European Physical Society (EPS)  
at the address below.

European Physical Society (EPS)  
6 Rue des Freres Lumoere  
F-68060 Mulhouse Cedex  
France

Phone: 33 389 32 94 40  
Fax: 33 389 32 94 49

[secretariat@eps.org](mailto:secretariat@eps.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# 40<sup>th</sup> EPS Conference on Plasma Physics

## 1 - 5 July 2013

Espoo, Finland

<a href="#"><u>02.101</u></a>	Soukhanovskii, V.A.	Snowflake Divertor Studies in DIII-D and NSTX Aimed at the Power Exhaust Solution for the Tokamak
<a href="#"><u>02.102</u></a>	Lang, P.T., Bernert, M., Burckhart, A., Casali, L., Fischer, R., Kardaun, O., Kocsis, G., Maraschek, M., Mlynek, A., Ploeckl, B., Reich, M., Francois, R., Schweinzer, J., Sieglin, B., Suttrop, W., Szepesi, T., Tardini, G., Wolfrum, E., Zohm, H., Team, A.	Pellet as tool for high density operation and ELM control in ASDEX Upgrade
<a href="#"><u>02.103</u></a>	Panayotis, S.	Modelling of the erosion/deposition pattern on the Tore Supra Toroidal Pumped Limiter
<a href="#"><u>02.104</u></a>	Raman, R., Jarboe, T.R., Jardin, S.C., Kessel, C.E., Mueller, D., Nelson, B.A., Poli, F., Gerhardt, S., Kaye, S.M., Menard, J.E., Ono, M., Soukhanovskii, V.	Non-inductive Plasma Current Start-up in NSTX using Transient CHI and subsequent Non-inductive Current Ramp-up Scenario in NSTX-U
<a href="#"><u>02.105</u></a>	De Masi, G., Martines, E., Auriemma, F., Cavazzana, R., Momo, B., Rea, C., Spagnolo, S., Spizzo, G., Spolaore, M., Vianello, N., Zuin, M.	The role of the magnetic topology in the Reversed Field Pinch edge physics
<a href="#"><u>02.106</u></a>	Calabro, G.	H-mode and L-H threshold experiments during ITER-like plasma current ramp up/down at JET with ILW
<a href="#"><u>02.107</u></a>	Jakubowski, M.W., Biedermann, C., König, R., Lorenz, A., Rodatos, A., Pedersen, T.S., Pilipp, D.	Development of infrared and visible endoscope as the safety diagnostic for steady-state operation of Wendelstein 7-X
<a href="#"><u>02.108</u></a>	Nicolas, T., Sabot, R., Garbet, X., Lutjens, H., Luciani, J., Guirlet, R., Decker, J., Sirinelli, A.	Role of the sawtooth crash in the electron and impurity transport in the Tore Supra and JET tokamaks
		Spatiotemporal and wavenumber resolved

<a href="#">O2.109</a>	van Milligen, B.P., Estrada, T., Hidalgo, C., Happel, T., Ascasíbar, E.	bicoherence at the L-H confinement transition in the TJ-II stellarator
<a href="#">O2.110</a>	Ford, O.P., Howard, J., Reich, M., Hobirk, J., Svensson, J., Wolf, R.	First results from the Imaging Motional Stark Effect diagnostic on ASDEX Upgrade
<a href="#">O2.111</a>	Xu, M., Cheng, J., Tynan, G., Diamond, P., Dong, J., Zhao, K., Manz, P., Fedorczak, N., Hong, W., Yan, L., Yang, Q., Song, X., Shi, Z., Ding, X., Duan, X., Liu, Y.	Link between turbulent eddies and shear flows and the characteristics of limit-cycle oscillation in the edge plasma of HL-2A tokamak
<a href="#">O2.112</a>	Yamada, I., Yasuhara, R., Funaba, H., Narihara, K., Hayashi, H., Yatsuka, E., Hatae, T., Tojo, H., Yoshikawa, M., Minami, T.	Backward and forward scattering configurations in LHD Thomson scattering system
<a href="#">O2.113</a>	Xu, Y.	Isotope effect and multi-scale physics in fusion plasmas
<a href="#">O2.115</a>	Tronko, N., Brizard, A.J.	Exact conservation laws for truncated gyrokinetic Vlasov-Poisson equations.
<a href="#">O2.116</a>	Maddison, G.P., Giroud, C., Beurskens, M., Brezinsek, S., Devynck, P., Eich, T., Garzotti, L., Jachmich, S., Järvinen, A., Lowry, C., Marsen, S., McCormick, K., Meigs, A., Rimini, F., Stamp, M., Wischmeier, M.	Contrasting H-mode behaviour with fuelling and nitrogen seeding in the all-carbon and metallic versions of JET
<a href="#">O2.303</a>	Caniello, R.	Carbon deposition by micro hollow cathode plasma discharge
<a href="#">O2.304</a>	Simonchik, L., Usachonak, M.	1D electromagnetic band gap structure formed by plasma
<a href="#">O2.401</a>	Stanier, A., Browning, P., Gordovskyy, M., McClements, K., Gryaznevich, M., Lukin, V.	Two-fluid simulations of magnetic reconnection during merging-compression start-up in the MAST Spherical Tokamak
<a href="#">O3.101</a>	Ham, C.J., Saarelma, S., Chapman, I., Kirk, A.	Three dimensional tokamak equilibrium and stability for MAST-like plasmas with external magnetic perturbations applied for ELM control
<a href="#">O3.102</a>	Kazakov, Y., Fülöp, T., Van Eester, D.	Reduction in the transition concentration of helium-3 ions caused by impurities in (3He)-H plasmas heated with ICRH
<a href="#">O3.103</a>	Diallo, A.	Direct observations of the onset of continuous edge instability limiting the pedestal growth between ELMs
	Kharchev, N., Batanov, G., Belousov, V., Bondar, Y., Borzosekov, V..	

<a href="#">O3.104</a>	Grebenshchikov, S., Grishina, I., Kholnov, Y., Kolik, L., Konchekov, E., Malakhov, D., Matveev, N., Meshcheryakov, A., Petrov, A., Sarkyan, K., Skvortsova, N., Stepakhin, V., Tai, E., Vasilkov, D., Voronov, G.	New gyrotron complex for plasma creating and heating in the L-2M stellarator and first experimental results
<a href="#">O3.105</a>	Dickinson, D., Roach, C., Casson, F., Kirk, A., Saarelma, S., Scannell, R.	Microtearing modes and the pedestal
<a href="#">O3.106</a>	Preynas, M.	Study of plasma start-up initiated by second harmonic electron cyclotron resonance heating on WEGA experiment
<a href="#">O3.107</a>	Thornton, A., Kirk, A., Cahyna, P., Harrison, J., Liu, Y.	The effect of ELM mitigation via RMP on divertor heat loads in the Mega Amp Spherical Tokamak and the implications for ITER
<a href="#">O3.108</a>	Zohm, H., Barbato, E., Jenkins, I., Kemp, R., Lerche, E., Poli, E., Tardini, G., v. Eester, D.	Assessment of H&CD system capabilities for DEMO
<a href="#">O3.203</a>	Bychenkov, V.Y., Govras, E.A.	Plasma slab expansion into a vacuum: from quasineutral outflow to Coulomb explosion
<a href="#">O3.306</a>	Heinisch, R.L.	Mie scattering by a charged dielectric particle: proposal for a novel plasma probe
<a href="#">O3.405</a>	Vlad, M.	Effects of ion trapping on the nonlinear evolution of drift turbulence
<a href="#">O3.406</a>	Chapman, T., Berger, R., Cohen, B., Williams, E., Brunner, S.	Vlasov simulation of the parametric instability of ion acoustic waves
<a href="#">O3.407</a>	Perrone, D., Valentini, F., Servidio, S., Dalena, S., Veltri, P.	Ion temperature anisotropy in the turbulent solar wind: Hybrid-Vlasov simulations
<a href="#">O3.408</a>	Speirs, D.	Generation, propagation and escape of astrophysical cyclotron-maser emission
<a href="#">O4.101</a>	Arévalo, J., Alonso, A., McCarthy, K., Velasco, J., Landreman, M., García-Regaña, J., Ochando, M., Hidalgo, C.	Compressible impurity flows in the TJ-II stellarator
<a href="#">O4.102</a>	Yoo, M., An, Y., Jung, B., Hwang, Y., Kim, J., Shim, S., Lee, H., Na, Y.	Numerical simulations of ohmic breakdown phenomena in a tokamak
<a href="#">O4.103</a>	Zou, X., Zhong, W., Bourdelle, C., Song, S., Artaud, J., Aniel, T., Duan, X.	Observation of the Particle Pinch Velocity Reversal with ITG/TEM Transition in the Tore Supra Tokamak
<a href="#">O4.104</a>	Militello, F., Naulin, V., Nielsen, A.	Numerical scalings of the decay lengths in the Scrape-Off Layer
<a href="#">O4.105</a>	Staelber, G.M., Lao, L.L., Grierson, B.A., Chrystal, C., Kinsey, J.E.	Predicting internal transport barriers with the TGLF model
<a href="#">O4.106</a>	Walkden, N., Dudson, B., Fishpool, G.	The transition from interchange to boltzmann dynamics in a 3d sol filament

<a href="#">Q4.107</a>	Idomura, Y.	Full-f gyrokinetic simulation over a confinement time
<a href="#">Q4.108</a>	Carralero, D., Birkenmeier, G., Müller, H., Manz, P., deMarne, P., Müller, S., Stroth, U., Wolfrum, E.	Influence of resistivity on filamentary transport in the SOL of ASDEX Upgrade
<a href="#">Q5.101</a>	Pace, D.C., Heidbrink, W.W., Van Zeeland, M.A.	Energetic ion transport in tokamak plasmas dominated by microturbulence, Alfvénic activity, or applied magnetic perturbations
<a href="#">Q5.102</a>	Papp, G., Fülöp, T., Fehér, T., de Vries, P., Riccardo, V., Reux, C., Lehnen, M., Kiptily, V., Pluysnin, V., Alper, B.	Runaway electron behaviour with the ITER-like wall in JET
<a href="#">Q5.103</a>	Aleynikova, K., Aleynikov, P., Konovalov, S., Zhogolev, V., Teplukhina, A.	Interaction of runaway electrons with high-Z impurities
<a href="#">Q5.104</a>	Pautasso, G.	MGI in plasmas with locked modes
<a href="#">Q5.209</a>	Sgattoni, A., Bigongiari, A., Ceccotti, T., Klimo, O., Macchi, A.	Enhanced laser coupling and proton acceleration in grating targets by surface wave excitation in the relativistic regime
<a href="#">Q5.212</a>	Krasa, J., D. Margarone, D., Klir, D., Velyhan, A., Krousky, E., Rezac, K., Kravarik, J., Jungwirth, K., Ullschmied, J.	High-currents of multi-MeV protons and fusion neutrons produced by 3-TW sub-nanosecond laser beam
<a href="#">Q5.311</a>	Tawidian, H., Lecas, T., Mikikian, M.	Predictive evolution of dusty plasma instabilities
<a href="#">Q5.411</a>	Popel, S.I., Golub', A.P., Izvekova, Y.N., Kopnin, S.I., Dolnikov, G.G., Zakharov, A.V., Zelenyi, L.M.	Lunar dusty ionosphere
<a href="#">Q5.412</a>	Stark, C.R., Helling, C., Diver, D.A., Rimmer, P.B.	Alfvén Ionization in the atmospheres of Brown Dwarfs
<a href="#">Q6.503</a>	Piip, K., Laan, M., Paris, P., Aints, M., Hakola, A., Karhunen, J., Likonen, J., Lissovski, A., Petersson, P., Rubel, M.	First wall monitoring by LIBS: options and limitations
<a href="#">Q6.504</a>	Hillesheim, J.C., Peebles, W.A., Meyer, H.F., Crocker, N.A.	Doppler backscattering measurements for MAST
<a href="#">Q6.505</a>	Melnikov, A.V., Krupnik, L.I., Hidalgo, C.	Diagnostic advances in heavy ion beam probing on the T-10 tokamak and TJ-II stellarator
<a href="#">Q6.506</a>	Pandya, S.N., Peterson, B.J., Mukai, K., Kobayashi, M., Sano, R., Drapiko, E.	Plasma Radiation profiles measured with Imaging bolometers and their comparison with synthetic images from the impurity transport model for LHD
<a href="#">Q6.507</a>	Agostini, M., Brombin, M., Dianin, C., Mattiolo, M., Pasqualotto, R., Serianni, G.	Tomographic diagnostic of MITICA neutral beam: algorithm development
<a href="#">Q6.508</a>	Baggio, J., Raffestin, D., Blanchot, N.	Radiation protection issues for diagnostics on the PETAL experimental system

		(Petawatt) of the LMJ facility
<a href="#">O6.510</a>	Bonheure, G., Hult, M., Fenyvesi, A., Akaslompolo, S., Carralero, D., Degering, D., de-Vismes Ott, A., Garcia-Munoz, M., Gmeiner, B., Herrmann, A., Laubenstein, M., Lutter, G., Mueller, H., Rohde, V., Sutrop, W., Tardini, G., Mlynar, J.	First escaping fast ion measurements in ITER-like geometry using an activation probe
<a href="#">O6.512</a>	Jacobsen, A.S., Salewski, M., Geiger, B., García-Muñoz, M., Heidbrink, W., Korsholm, S.B., Leipold, F., Madsen, J., Michelsen, P., Moseev, D., Nielsen, S.K., Rasmussen, J., Pedersen, M.S., Tardini, G.	How to compute velocity-space tomographies using several fast-ion diagnostics
<a href="#">P1.101</a>	Lawson, K.D., Groth, M., Maggi, C.F., Barnsley, R., Belo, P., Brezinsek, S., Corrigan, G., Harting, D., Lehnen, M., Marsen, S., Meigs, A.G., Stamp, M.F., Tyrrell, S.	Comparisons between EDGE2D/EIRENE simulations and D and low Z impurity spectral emission from JET ITER-like wall L-mode plasmas
<a href="#">P1.102</a>	Mosetto, A., Halpern, F.D., Jollet, S., Loizu, J., Ricci, P.	Turbulent regimes in the tokamak scrape-off layer
<a href="#">P1.104</a>	Coster, D.P., Chankin, A., Klingshirn, H., Bonnin, X., Kukushkin, A., Loarte, A.	SOLPS modelling of controlled ELMs for ITER
<a href="#">P1.105</a>	Senichenkov, I., Kaveeva, E., Rozhansky, V., Gogoleva, A., Vekshina, E., Voskoboinikov, S., Wagner, F.	Transport modeling of the Globus-M tokamak edge plasma
<a href="#">P1.107</a>	Ciaccio, G., Schmitz, O., Agostini, M., Puiatti, M., Scarin, P., Spizzo, G., Vianello, N., White, R.	Comparison of edge islands transport in tokamaks and RFPs
<a href="#">P1.108</a>	Omotani, J.T., Walkden, N., Dudson, B., Fishpool, G.	Non-local parallel transport in the tokamak scrape-off layer
<a href="#">P1.109</a>	Heikkinen, J., Korpilo, T., Pyy, T., Janhunen, S., Kiviniemi, T., Leerink, S.	Gyrokinetic calculation of plasma transport with a material boundary
<a href="#">P1.111</a>	Gribov, Y., Amoskov, V., Lamzin, E., Sytchevsky, S.	Assessment of 3D perturbation of plasma boundary and variation in field lines inclination near outboard first wall caused by non-axisymmetric magnetic fields expected in ITER
<a href="#">P1.112</a>	Belo, P., Strachan, J., Groth, M., Corrigan, G., Harting, D., Brezinsek, S.	EDGE2D/EIRENE simulations of the W event after X-point formation with the new JET-ILW
<a href="#">P1.114</a>	Viola, B., Frigione, D., Belo, P., Groth, M., Kempenaars, M., Kruezi, U., Marsen, S., Stamp, M.	Study of the effect of the outer-strike point location on the divertor neutral pressure in JET-ILW using EDGE2D/EIRENE
<a href="#">P1.115</a>	Groth, M.	Divertor plasma and neutral conditions in JET-ILW ohmic plasmas in semi-horizontal and vertical divertor configurations
<a href="#">P1.117</a>	Meyer, O.	«WEST» like divertor geometry experiments in

		ASDEX upgrade
P1.118	Furno, I., Avino, F., Avino, F., Bovet, A., Bovet, A., Iraji, D., Iraji, D., Fasoli, A., Fasoli, A., Loizu, J., Loizu, J., Ricci, P., Ricci, P.	Turbulence and turbulent structures in the TORPEX device in closed field line configurations
P1.119	Viola, B., Pericoli Ridolfini, V., Maddaluno, G., Artaserse, G., Belli, F., Bin, W., Boncagni, L., Gabellieri, L., Marocco, D., Mazzotta, C., Pucella, G.	Scaling of the Scrape-Off Layer parameters in FTU tokamak
P1.121	Komm, M., Kočan, M., Carralero, D., Müller, H.W., Stöckel, J.	Fast measurements of ion temperature in ELM filaments in the ASDEX Upgrade scrape-off layer
P1.124	Kukushkin, A.S., Pacher, H.D., Pitts, R.A., Kotov, V., Pacher, G.W., Reiter, D.	ITER tungsten divertor: initial operation at low power
P1.126	Müller, H., Carralero, D., Birkenmeier, G., Conway, G.D., Fuchs, C., Lunt, T., deMarne, P., Fischer, R., Manz, P., Maraschek, M., Sieglin, B., Suttrop, W., Wolfrum, E.	SOL turbulence modification by non-axisymmetric magnetic perturbations in L-mode
P1.127	Marsen, S.	Divertor Heat Load in JET - Comparing Langmuir Probe and IR Data
P1.128	Morozov, D.K., Pshenov, A.A.	Stabilization of radiation-condensation instability in tokamaks with beryllium wall
P1.129	Okamoto, A.	Volumetric recombining plasma in helicon source divertor simulator
P1.131	Rudakov, D.L., Boedo, J.A., Moyer, R.A., Stangeby, P.C., Tynan, G.R., Watkins, J.G.	Electron temperature fluctuations and turbulent heat fluxes in the DIII-D SOL
P1.132	Bykov, A.S., Sergeev, V.Y., Khromov, N.A., Gusev, V.K., Petrov, Y.V., Sakharov, N.V., Tolstyakov, S.Y., Wagner, F.	Measurements of the SOL heat flux width on Globus-M
P1.133	Potzel, S., Wischmeier, M., Bernert, M., Dux, R., Müller, H., Reimold, F., Scarabosio, A.	On the Fluctuating Detachment State at ASDEX Upgrade
P1.134	Kocan, M., Pitts, R., Gribov, Y., Bruno, R., Carpentier-Chouchana, S., Firdaouss, M., Loarte, A., Mitteau, R.	Secondary divertor heat loads during plasma current ramp down at high performance in ITER
P1.135	Shurygin, V.	Kinetics of hydrogen atom radiation emission of the SOL plasma in ITER
P1.136	Koskela, T.S., Asunta, O., Belo, P., O'Mullane, M., Romanelli, M., Sipilä, S.	Modelling of the effect of the ITER-like wall on NBI heating in JET
P1.137	Liniers, M., Guasp, J., Ochando, M., Wolfers, G., Sebastián, J.A., Carrasco, R., Martín, F., Rojo, B., McCarthy, K.J., Ascasíbar, E., Zurro, B.	A study of ion trajectories in the neutral beam duct of TJ-II stellarator
P1.138	Orozco, G., Staebler, A., Froeschle, M., Heinemann, B., Noccentini, R., Riedl, R.	A test bed for AC operation of Ti sublimation pumps in the NBI system for W7-X
P1.139	Moustaizis, S.	Investigations on high power neutral beam production for

		Tokamak applications
P1.140	Zou, G., Cao, J., Lei, G., Wei, H., Zhang, X., Duan, X.	Study of ion beam extraction elements for HL-2M neutral beam injector
P1.141	Melnik, A., Bakharev, N., Chernyshev, F., Gusev, V., Ibylyaminova, A., Kornev, V., Kurskiev, G., Matveeva, E., Minaev, V., Mironov, M., Patrov, M., Petrov, Y., Sakharov, N., Shchegolev, P., Tolstyakov, S.	Study of fast ion losses during NBI heating on Globus-M tokamak
P1.142	Ruf, B., Franzen, P., Fantz, U.	Investigation on the beam homogeneity in large sources for negative hydrogen ions
P1.143	Munaretto, S., Kumar, S.T., Eilerman, S., Nornberg, M.D., Den Hartog, D.J.	Ion energization during magnetic reconnection in MST
P1.144	Murakami, S.	Development of momentum conserving collisional operator for Monte Carlo simulation code
P1.146	Kocsis, G., Craciunescu, T., Cseh, G., Incze, A., Lang, P., Plöckl, B., Szepesi, T.	Investigation of the pellet cloud radiation dynamics at ASDEX Upgrade
P1.147	Cseh, G., Belonohy, E., Kardaun, O., Kocsis, G., Lang, P., Plöckl, B., Szepesi, T.	A pellet cloud database to investigate isotope effects for ASDEX Upgrade
P1.148	Kobayashi, S., Mizuuchi, T., Nakashima, Y.	Experimental study of high density plasma operation in Heliotron J
P1.149	Yu, D.	Study of the high-efficiency fuelling features of supersonic molecular beam injection on HL-2A tokamak
P1.154	Jones, O.M., Michael, C.A., McClements, K.G., Conway, N.J., Crowley, B.J., Akers, R.J., Lake, R.J., Pinches, S.D.	Fast-ion deuterium alpha observations of the effects of fast-particle-driven MHD in the Mega-Ampere Spherical Tokamak
P1.155	Rack, M., Liang, Y., Jaegers, H., Aßmann, J., Satheeswaran, G., Xu, Y., Pearson, J., Denner, P., Zeng, L.	Rotating directional probe for the study of RMP effects on fast ion losses in TEXTOR
P1.156	Isaev, M.Y., Medvedev, S.Y., Pinches, S.D., Sharapov, S.E.	Nonlinear saturation of the Toroidal Alfvén eigenmodes computed with the VENUS+δf, HAGIS and KINX codes
P1.157	Biancalani, A., Bottino, A., Lauber, P.W.	Global simulations of GAMs and Alfvén instabilities in tokamaks with the gyrokinetic codes NEMORB and LIGKA.
P1.158	Fredrickson, E.D., Podestà, M., Bortolon, A.	Predator-prey modeling of the coupling of co-propagating CAE to kinks
P1.159	Delgado-Aparicio, L.	Observation of fishbone-like internal kink modes during

		LHCD operation in Alcator C-Mod
P1.160	Deng, W.	Energetic ion excited long-lasting internal modes in HL-2A tokamak with low magnetic shear
P1.162	He, H.	Investigation of fishbone instabilities excited by trapped energetic electrons on the HL-2A tokamak
P1.163	Snicker, A.T., Hirvijoki, E., Kurki-Suonio, T.	The effect of NTMs and TAEs on fast particles in ITER
P1.164	Lister, J., Besseghir, K., de Groot, J., Khayrutdinov, R., Lukash, V.	Reducing radial movement in ITER H-L-mode back transitions
P1.165	Håkansson, F.E., Nyqvist, R., Lilley, M.	Directivity of frequency sweeping kinetic instabilities
P1.167	Geiger, B., Garcia-Munoz, M., Dux, R., McDermott, R., Ryter, F., Tardini, G., Weiland, M.	Fast-ion transport studies by FIDA spectroscopy at ASDEX Upgrade
P1.168	Sattin, F., Escande, D.	Success and failure of the convection-diffusion model to describe transport in fusion plasmas
P1.169	Coda, S., de Meijere, C., Huang, Z., Margairaz, F., Brunner, S., Dominski, J., Merlo, G., Villard, L.	Localized density fluctuation measurements by tangential phase-contrast imaging in the TCV tokamak and comparisons with a synthetic diagnostic
P1.170	Altukhov, A., Esipov, L., Gurchenko, A., Gusakov, E., Irzak, M., Kantor, M., Kouprienko, D., Lashkul, S., Leerink, S., Teplova, N.	Turbulence wave number spectra in the FT-2 tokamak by radial correlation Doppler reflectometry
P1.171	Nagamine, Y., Aizawa, M.	Diffusive transport analysis in low aspect ratio reversed field pinch
P1.172	Dyabilin, K.S.	Tokamak self-consistent pressure profiles interpretation via a "thermodynamic" approach
P1.173	Newman, D., Terry, P.W., Sanchez, R.	The initiation and dynamical evolution of electron and ion channel transport barriers in self-heated plasmas
P1.174	Timchenko, N.	Main features of turbulent flux responsible for plasma self-organization and energy confinement.
P1.177	Buxton, P.F., Gibson, K., Gryaznevich, M., Sykes, A., Wilson, H.R.	Gyrokinetic simulations of mixing-length diffusivity on a High Field Spherical Tokamak (HFST)

[P1.178](#) Spineanu, F., Vlad, M.

The role of the rotation in the correlated transient change of the density and confinement

[P1.179](#) McMillan, B.F., Hill, P., Villard, L., Vernay, T., Bottino, A.

Accuracy of momentum and gyrodensity transport equations in global gyrokinetic PIC simulations

[P1.180](#) Chouli, B.

Co- and counter-current rotation induced in tore supra plasmas with LHCD

[P1.181](#) Kikuchi, M., Shaing, K., Nagasaki, K., Sano, F.

Effect of impurity toroidal viscosity on offset toroidal rotation

[P1.182](#) Honda, M.

Simulations of toroidal rotation driven by the neoclassical toroidal viscosity in tokamaks

[P1.185](#) Danilov, A., Dnestrovskij, Y., Vershkov, V., Borisov, M., Cherkasov, S., Dnestrovskij, A., Lysenko, S.

Plasma diffusion modeling in T-10 periodic gas-puff experiment

[P1.188](#) Happel, T., Bañón Navarro, A., Conway, G., Angioni, C., Bernert, M., Dunne, M., Fable, E., Geiger, B., Görler, T., Jenko, F., McDermott, R., Ryter, F., Stroth, U.

Wavenumber-resolved turbulence investigations in the ASDEX Upgrade tokamak and comparison to numerical simulations

[P1.201](#) Paleari, S., Batani, D., Benocci, R., Shigemori, K., Hironaka, Y., Kadono, T., Shiroshita, A., Aliverdiev, A.A.

Liquid Carbon reflectivity in the Mbar regime

[P1.206](#) Dimitriou, V.M., Kaselouris, E., Orphanos, Y., Bakarezos, E., Vainos, N., Nikolos, J.K., Papadogiannis, N.A., Tatarakis, M.

Matter dynamics under the interaction with laser pulses in the thermoelastic & plasma regimes

[P1.208](#) Consoli, F., De Angelis, R., Gus'kov, S.Y., Rupasov, A.A., Andreoli, P., Cristofari, G., Di Giorgio, G., Giulietti, D., Cantono, G., Kalal, M.

Experiments on laser-driven energy transfer to solid target through a foam on the ABC laser

[P1.211](#) Oreshko, A.G.

On the solution of problem of nuclear fusion on base of ball lightning

[P1.213](#) Elkina, N.

An adaptive grid refinement method for the relativistic Vlasov-Maxwell equations

[P1.302](#) Gott, Y.V.

Plasma electron temperature detector

[P1.304](#) Tawidian, H., Diop, F., Lecas, T., Gibert, T., Mikikian, M.

Void behavior and profile using laser induced fluorescence

[P1.311](#) Mohr, D.P., Knapek, C.A., Konopka, U., Wörner, L., Du, C., Heidemann, R., Wildgruber, G., Rubin-Zuzic, M., Morfill, G.E., Thomas, H.M.

PlasmaLab --- Next generation plasma chambers for the ISS

[P1.312](#) Mustapha, I.

Effect of a polynomial arbitrary dust size distribution on dust-acoustic

		double layers in dusty plasmas.
P1.403	de Sousa, M.C., Caldas, I.L., de Almeida, A.O., Rizzato, F.B., Pakter, R.	Multiple island chains in primary resonances
P1.406	Escande, D.F., Doveil, F., Elskens, Y.	Basic microscopic plasma physics unified and simplified by N-body classical mechanics
P1.409	King, M.	Computational and experimental study of beam-plasma instabilities relevant to fast-ignition inertial confinement fusion
P1.410	Kuhn, S., Tskhakaya, D.D., Kos, L.	The non-marginal Bohm condition in the collisionless plasma diode
P1.412	Rohlena, K., Masek, M.	Influence of the laser spark generation mechanism on electric and magnetic fields in its vicinity
P1.568	Hollmann, E.M., Commaux, N., Eidietis, N.W., Humphreys, D.A., Jernigan, T.C., Lasnier, C.J., Moyer, R.A., Pitts, R., Sugihara, M., Strait, E.J., Watkins, J.G., Wesley, J.C.	Characterization of Heat Loads From Mitigated and Unmitigated VDEs in DIII-D
P2.011	Thomsen, H., Zhang, D., Biedermann, C., König, R., Li, D., Mayer, M., Pedersen, T.S., Svensson, J., Weller, A.	Reconstruction Accuracy of the Soft X-Ray Tomography System on MHD Modes in Wendelstein 7-X Stellarator
P2.021	Brezinsek, S.	Study of physical and chemical sputtering of beryllium in the JET ITER-Like Wall
P2.102	Hartwell, G.J., ArchMiller, M.C., Cianciosa, M., Hanson, J.D., Hebert, J., Herfindal, J., Knowlton, S.F., Ma, X., Maurer, D.A., Pandya, M., Traverso, P.	Overview of results from the compact toroidal hybrid experiment
P2.103	Anikeev, A., Bagryansky, P., Donin, A., Ivanov, A., Korzhavina, M., Kovalenko, Y., Lizunov, A., Maximov, V., Murakhtin, S., Pinzhenin, E., Prikhodko, V., Savkin, V., Soldatkina, E., Solomakhin, A., Zaytsev, K.	Experimental results in support of the neutron source based on an axisymmetric mirror trap
P2.104	Fasoli, A., Alberto, S., Chavan, R., Duval, B., Karpushov, A., Martin, Y., Sauter, O., Toussaint, M., Weisen, H.	An upgraded TCV for tokamak physics in view of ITER and DEMO
P2.105	Bozhenkov, S.A., Geiger, J., Grahl, M., Kisslinger, J., Werner, A., Wolf, R.C.	Service oriented architecture for scientific analysis. An example of a W7-X field line tracer.
P2.106	Andreeva, T., Bykov, V., Egorov, K., Endler, M., Fellinger, J., Kißlinger, J., Köppen, M., Schauer, F.	Influence of assembly and operation asymmetries on Wendelstein 7-X magnetic field perturbations
P2.109	Okamura, S.	Optimization of helical movement of magnetic axis in LHD-type planar-axis stellarator

<a href="#">P2.110</a>	Anikeev, A.V., Bagryansky, P.A.	A neutron source based on gas dynamic trap for fusion-fission hybrid systems
<a href="#">P2.111</a>	Gryaznevich, M., Sykes, A., Costley, A.E., Hugill, J., Smith, G., Kingham, D.	The spherical tokamak path to fusion power, revisited.
<a href="#">P2.112</a>	Nemov, V., Kasilov, S., Kernbichler, W., Kalyuzhnyj, V., Heyn, M.	Calculations of collisionless high-energy particle losses for heliotron/torsatron devices in real space coordinates
<a href="#">P2.113</a>	Kogut, D., Douai, D., Pitts, R.A., Hagelaar, G.	Assessment of the new ITER GDC system performance
<a href="#">P2.114</a>	Soldatkina, E.	Experiments in support of the GDT-based facility for plasma-material interaction testing project
<a href="#">P2.115</a>	Voronin, A.V., Gusev, V.K., Gerasimenko, Y.A., Demina, E.V., Miroshnikov, I.V., Mukhin, E.E., Novokhatsky, A.N., Petrov, Y.V., Prusakova, M.D., Sakharov, N.V., Shchogolev, P.B.	Study of ITER-like tungsten irradiated at ELM-power density
<a href="#">P2.118</a>	Buzhinskij, O.I.	Protection by B4C coating under irradiation of plasma pulses
<a href="#">P2.119</a>	Novokhatsky, A., Janeschitz, G., Ber, B., Gusev, V., Gorodetsky, A., Kuznetsov, V., Litunovsky, N., Makhankov, A., Mazul, I., Mukhin, E., Petrov, Y., Sakharov, N., Tolstyakov, S., Voronin, A., Zakharov, A., Zalavutdinov, R.	Investigation of ITER – like tungsten tile mock-up with modified surface in Globus-M tokamak
<a href="#">P2.120</a>	Douai, D.	Ion Cyclotron Wall Conditioning in KSTAR and ASDEX-Upgrade
<a href="#">P2.123</a>	Rohde, V.	Nitrogen balance and ammonia formation during nitrogen seeded discharges at ASDEX Upgrade
<a href="#">P2.124</a>	Masuzaki, S., Tokitani, M., Bawankar, P.S.	Deposition layer studies in LHD with directional material probe method
<a href="#">P2.125</a>	Miettunen, J., Airila, M., Makkonen, T., Groth, M., Lindholm, V., Björkas, C., Hakola, A., Müller, H.	Dissociation of 13CH4 and 15N2 and the global transport of impurities in an ASDEX Upgrade L-mode plasma
<a href="#">P2.126</a>	Airila, M.I., Makkonen, T., Järvinen, A., Groth, M., Brezinsek, S., Coad, P., Jachmich, S., Kirschner, A., Likonen, J., Meigs, A., Rubel, M., Widdowson, A.	Re-deposition dynamics of trace 13C in H-mode divertor conditions
<a href="#">P2.127</a>	Mellet, N., Martin, C., Pégourié, B., Giacometti, G., Roubin, P., Gunn, J.	Differential sputtering and magnetic sheath effects on the microscopic erosion pattern of the Tore Supra limiter
<a href="#">P2.128</a>	Cho, S., Chung, K.	Novel in-situ measurement of dust quantities by a solar cell in transport and removal experiments of dust (TReD)

		device
P2.130	Järvinen, A.E., Groth, M., Belo, P., Brezinsek, S., Corrigan, G., Eich, T., Harting, D., Giroud, C., Jachmich, S., Maddison, G., Marsen, S., Meigs, A., Moulton, D., Sergienko, G., Wiesen, S.	Impact of the carbon and tungsten wall materials on deuterium recycling and neutral fuelling in JET using EDGE2D/EIRENE
P2.131	Weisen, H., Camenen, Y., Salmi, A., Gelfusa, M.	Residual stress and pinch contributions to momentum transport in JET neutral beam heated H-modes
P2.132	Shabbir, A., Verdoolaege, G., Van Oost, G., Noterdaeme, J.	Visualization of tokamak operational spaces through the projection of data probability distributions
P2.134	Schweinzer, J., Bobkov, V., Burckhart, A., Dux, R., Fuchs, C., Kallenbach, A., Hobirk, J., Pütterich, T., Lang, P., Stober, J., Ryter, F., Tardini, G., Mlynek, A.	Demonstration of the ITER baseline scenario on ASDEX Upgrade
P2.135	Polevoi, A.R., Hayashi, N., Kim, H., Kim, S., Koechl, F., Kukushkin, A.S., Leonov, V.V., Loarte, A., Medvedev, S.Y., Murakami, M., Na, Y., Pankin, A.Y., Park, J.M., Snyder, P.B., Snipes, J.A.	Optimisation of ITER operational space for long-pulse scenarios
P2.136	Suzuki, T., Hayashi, N., Urano, H., Miyata, Y., Honda, M., Ide, S.	Investigation of the JT-60SA operation scenarios combined with integrated real-time controls
P2.137	Kanki, T.	Two-fluid flowing equilibrium configurations of HIST spherical torus plasmas sustained by double pulsing coaxial helicity injection
P2.138	Holcomb, C.T., Ferron, J.R., Luce, T.C., Petrie, T.W., Park, J.M., Turco, F., Okabayashi, M., Hanson, J.M., Politzer, P.A., In, Y., Hyatt, A.W., La Haye, R.J., Lanctot, M.J.	Investigating Steady-State Operating Scenarios on DIII-D Using Flexible Current Drive Actuators
P2.139	Fischer, R., Hobirk, J., Barrera, L., Bock, A., Burckhart, A., Classen, I., Dunne, M., Fuchs, C., Giannone, L., Lackner, K., McCarthy, P., Poli, E., Preuss, R., Rampp, M., Rathgeber, S., Reich, M., Sieglin, B., Sutrop, W., Wolfrum, E.	Magnetic equilibrium reconstruction using geometric information from temperature measurements at ASDEX Upgrade
P2.140	Ciro, D., Caldas, I.L.	Equilibrium topology for plasmas with reversed current density
P2.142	Alessi, E., Sozzi, C., Galperti, C., Botrugno, A., Calabro', G., Marchetto, C., Pucella, G., Nowak, S., Tudisco, O.	Real Time ECE-Mirnov cross-correlations by dual phase lock-in technique in FTU
P2.143	Marrelli, L., Piron, L., Zanca, P., Piron, C., Manduchi, G.	Modelling and experimental study of tearing mode control with the new RFX-mod feedback control system
P2.144	Marchiori, G., Cavazzana, R., Finotti, C., Kudlacek, O., Manduchi, G., Marrelli, L., Zanotto, L., Cenedese, A., Merlo, P., Villone, F.	Implementation and testing of a shape control system in RFX-mod Tokamak discharges
		Sawtooth control via n=1

<a href="#">P2.145</a>	Martin, P., Bonfiglio, D., Piovesan, P.	applied magnetic perturbation in tokamak
<a href="#">P2.146</a>	Piovesan, P., Bialek, J., Hanson, J., La Haye, R., Lanctot, M., Martin, P., Navratil, G., Okabayashi, M., Paz-Soldan, C., Strait, E., Turco, F., Zanca, P., Baruzzo, M., Bolzonella, T., Hyatt, A., Jackson, G., Marrelli, L., Piron, L., Shiraki, D., Turnbull, A.	q95 2 operation via control of MHD stability in the DIII-D tokamak
<a href="#">P2.147</a>	Felici, F., de Baar, M., Steinbuch, M., Fable, E., Fokina, E., Giannone, L., Rapson, C., Reich, M., Treutterer, W.	Real-time plasma state reconstruction and fault detection using a model-based dynamic observer
<a href="#">P2.148</a>	Ayten, B., Westerhof, E.	Non-linear effects in electron cyclotron current drive applied for the stabilization of neoclassical tearing modes
<a href="#">P2.149</a>	Artaserse, G., Albanese, R., Boncagni, L., Carnevale, D.	Alternative equilibrium reconstruction code for FTU plasma control
<a href="#">P2.150</a>	Westerhof, E., Pratt, J.	Expression of electron cyclotron current drive in plasma fluid models
<a href="#">P2.151</a>	Reich, M., Barrera, L., Behler, K., Poli, E., Maraschek, M., Rapson, C., Stober, J., Treutterer, W., Team, A., Giannone, L.	NTM stabilization experiments at ASDEX Upgrade
<a href="#">P2.152</a>	Okabayashi, M., Strait, E.J., Garofalo, A.M., Hanson, J.M., In, Y., La Haye, R.J., Shiraki, D., Volpe, F.	Avoidance of neoclassical tearing mode locking and disruption by feedback-induced accelerating electromagnetic torque
<a href="#">P2.153</a>	Maljaars, B., Felici, F., Hogeweij, D., van Dongen, J., de Baar, M., Steinbuch, M.	Fast model-based control and prediction of the safety factor profile evolution in tokamak plasmas
<a href="#">P2.154</a>	Zanotto, L., Cavazzana, R., Finotti, C., Marchiori, G.	Optimization of the RFX-mod toroidal power supply for m=0 plasma mode control
<a href="#">P2.155</a>	Giannone, L., Reich, M., Maraschek, M., Poli, E., Rapson, C.	Real-time magnetic equilibria for pre-emptive NTM stabilization experiments on ASDEX Upgrade
<a href="#">P2.156</a>	Guangjun, L.	Effect of passive structure on MHD stability in the EAST tokamak
<a href="#">P2.157</a>	Anand, H., Moret, J., Coda, S., Le, H.	Development of plasma shape control using real-time equilibrium reconstruction on TCV
<a href="#">P2.158</a>	Militello Asp, E., Parail, V., Garzotti, L., da Silva Aresta Belo, P., Corrigan, G., Giroud, C., Harting, D., Koechl, F., Koskela, T., Maddison, G., Romanelli, M., Contributors, J.	Status of Integrated Modelling of JET-ILW Plasmas with N2 seeding
<a href="#">P2.160</a>	Koltunov, M., Tokar, M.Z.	Shell model for impurity spreading from intense localized source
<a href="#">P2.161</a>	Budny, R.V., Yuan, X., Jardin, S., Hammett, G., Grierson, B.,	TRANSP tests of TGLF and

	Staebler, G., Kinsey, J.	predictions for ITER
P2.162	Sirén, P., Tala, T., Corrigan, G., Garcia, J., Litaudon, X., Salmi, A. Figueiredo, A., Voitsekhouitch, I., Basiuk, V., Ferreira, J., Huynh, P., Ivanova-Stanik, I., Kalupin, D., Sauter, O., Belo, P., Coster, D., Johnson, T., Koechl, F., Scott, B., Stankiewicz, R., Strand, P.	Current profile modelling in JET and JT-60U identity plasma experiments
P2.163	Li, M., Ding, B., Kong, E., Zhang, L., Wei, W., Li, Y., Shan, J., Liu, F., Wang, M., Xu, H., Yang, Y., Imbeaux, F., Basiuk, V., Artaud, J., Peysson, Y., Huynh, P.	Modelling of JET hybrid scenarios with the European Transport Solver
P2.164	Baiocchi, B., Garcia, J., Beurskens, M., Bourdelle, C., Crisanti, F., Giroud, C., Hobirk, J., Imbeaux, F., Nunes, I.	Predictive simulation of H-mode performance in EAST
P2.165	Vlad, M., Spineanu, F.	Turbulent transport analysis of JET H-mode and hybrid plasmas using QuaLiKiz, TGLF and GLF23
P2.166	Maggi, C.F., Delabie, E., Hawkes, N., Lehnen, M., Calabro', G., Rimini, F., Solano, E.R.	Test particle approach of turbulent transport
P2.168	Rozhansky, V.	Experimental study of H-L transitions in JET
P2.170	Kong, D.	Modeling of I-phase of ASDEX-Upgrade
P2.171	Bourdelle, C.	Evolutions of mean flow and fluctuating flow during the L-I-L mode transition in the edge of HL-2A
P2.172	Takahashi, H.	L to H mode transition: on the role of Zeff
P2.173	Huang, Z., de Meijere, C., Coda, S., Vermare, L., Vernay, T., Vuille, V., Brunner, S., Dominski, J., Hennequin, P., Kraemer-Flecken, A., Maimbourg, G., Merlo, G., Porte, L., Villard, L.	Study of transition mechanism based on poloidal ion viscosity using biasing electrode in Heliotron J
P2.175	Vuille, V., Porte, L., Brunner, S., Coda, S., Fasoli, A., Huang, Z., de Meijere, C.A., Merlo, G., Vermare, L.	Multi-diagnostic characterization of geodesic acoustic modes in the TCV tokamak
P2.176	Melnikov, A.V., Eliseev, L.G., Perfilov, S.V., Lysenko, S.E.	Investigation of turbulence and zonal flows for different shapes and scenarios in TCV using correlation ECE
P2.179	Yashin, A.	Radial mode structure of plasma fluctuations in the GAM frequency range in OH and ECRH plasmas on the T-10 tokamak
P2.180	Pedrosa, A., Hidalgo, C., Liu, B., Martín de Aguilera, A., Ochando, M.A., Zurro, B., Silva, C.	GAM observation in the TUMAN-3M tokamak using Doppler reflectometry
		Isotope effect on zonal flows and searching for asymmetries in potential profiles in the TJ-II stellarator
		The isotope effect on the geodesic acoustic mode

<a href="#">P2.181</a>	Gurchenko, A., Gusakov, E., Altukhov, A., Esipov, L., Kantor, M., Kouprienko, D., Lashkul, S., Perevalov, A.	spatial structure and its interaction with small-scale turbulence in the FT-2 tokamak
<a href="#">P2.183</a>	Sgalla, R.J., Elfimov, A.G., Smolyakov, A.I.	Diamagnetic effects and Landau damping on geodesic acoustic modes
<a href="#">P2.184</a>	Hallatschek, K.	Action of magnetic islands on GAMs and zonal flows
<a href="#">P2.185</a>	Kammel, A., Hallatschek, K.	Behavior of zonal flows and transport in the high-rho_s-regime
<a href="#">P2.187</a>	Kiviniemi, T., Niskala, P., Leerink, S., Heikkinen, J., Janhunen, S., Korpiö, T.	Gyrokinetic simulation of GAMs in T-11M plasma edge Global geodesic acoustic mode in a tokamak with positive magnetic shear profile
<a href="#">P2.188</a>	Ilgisonis, V., Lakhin, V., Sorokina, E.	
<a href="#">P2.203</a>	Badziak, J., Chodukowski, T., Kalinowska, Z., Parys, P., Pisarczyk, T., Raczka, P., Rosinski, M., Ryć, L., Wołowski, J., Zaraś, A., Gizzi, L., Baffigi, F., Cristoforetti, G., Koester, P., Labate, L., Antonelli, L., Richetta, M., Batani, D., Folpini, G., Malka, G., Maheut, Y., Krouský, E., Pfeifer, M., Renner, O., Smid, M., Skala, J., Ullschmied, J., Kucharík, M., Liska, R., Rhee, Y., Consoli, F., De Angelis, R., Spindloe, C.	The influence of preformed plasma on a laser-driven shock produced in a planar target at the conditions relevant to Shock Ignition
<a href="#">P2.208</a>	Buttenschön, B., Kempkes, P., Grulke, O., Klinger, T.	A helicon plasma source as a prototype for a proton-driven plasma wakefield accelerator
<a href="#">P2.209</a>	Cairns, R.A., Bingham, R., Norreys, P., Trines, R.	Laminar shocks in high power laser interaction
<a href="#">P2.212</a>	Lorenzo, T., Mariapompea, C., Lucio, A., Jiri, U.	Diagnostics of fast plasmas produced by intense laser pulses
<a href="#">P2.304</a>	Piel, A., Bockwoldt, T., Goree, J.A.	Particle-string formation in complex plasmas with ion flows
<a href="#">P2.308</a>	Couedel, L.	Growth of tungsten nanoparticles in direct-current argon glow discharges
<a href="#">P2.310</a>	Ivchenko, A.V.	Gas-Dynamic Features of Jets Generated by Colliding Surface Discharges
<a href="#">P2.402</a>	Mykhaylenko, V.S., Mykhaylenko, V.V., Lee, H.J., Koepke, M.E., Azarenkov, N.A.	Shearing modes approach in the theory of shear flows turbulence
<a href="#">P2.404</a>	Paroli, B., Ikram, M., Maero, G., Pozzoli, R., Romé, M.	Observation of low-frequency oscillations in a radio frequency-stabilized plasma confined in a Malmberg-Penning trap
<a href="#">P2.406</a>	Schrittwieser, R.W.	Electrical Breakdown in an Argon/Titanium Hollow

	Cathode Gas Discharge
P2.407 Schrittwieser, R.W.	Basic properties of magnetic dipole discharges
P2.409 Shumlak, U.	Blended high-order finite element methods for plasma modeling
P2.410 Hernandez-Arriaga, D., Brotankova, J., Grover, O., Kocman, J., Markovic, T., Odstrcil, M., Odstrcil, T., Ruzickova, T., Stockel, J., Svoboda, V., Vondrasek, G.	Tokamak GOLEM for fusion education - chapter 4
P4.101 deGrassie, J.S., Lanctot, M.J., Orlov, D.M., Snyder, P.B., Evans, T.E., Fenstermacher, M.E., Jackson, G.L., Nazikian, R., Wade, M.R.	Suppression of ELMs by resonant magnetic perturbations in DIII-D in the ITER similar shape
P4.102 Punjabi, A., Ali, H.	Footprint of plasma particles in the DIII-D with magnetic perturbations
P4.103 Panek, R., Stockel, J., Havlicek, J., Janky, F., Hron, M., Weinzettl, V., Bilkova, P., Dimitrova, M., Hacek, P., Dejarnac, R., Aftanas, M., Bohm, P., Cahyna, P., Imrisek, M., Stefanikova, E., Varju, J.	Characterization of Ohmic and NBI heated H-mode in the COMPASS tokamak
P4.104 Fenstermacher, M.E., Xu, X.Q., Xia, T.Y., Rognlien, T.D., Umansky, M., Joseph, I., Lasnier, C.J., Osborne, T.H., Zeng, L.	Triangularity Dependence of BOUT++ Nonlinear ELM Simulation Validation by DIII-D Fast Measurements
P4.105 Wolfrum, E., Lunt, T., Mueller, H.W., Potzel, S., Wischmeier, M., Suttrop, W.	Evidence for increased fuelling by application of magnetic perturbations at high density at ASDEX Upgrade
P4.106 Schneider, P.A., Wolfrum, E., Dunne, M., Kurzan, B., Pütterich, T., Vicente, J., Wenninger, R.	Observation of different phases during an ELM crash with the help of nitrogen seeding
P4.107 Lunt, T., Feng, Y., Wolfrum, E., Potzel, S., Rathgeber, S.K., Suttrop, W.	EMC3-Eirene simulations of the impact of Magnetic Perturbations on the neutral particle recycling in ASDEX Upgrade
P4.108 Rathgeber, S.K., Barrera, L., Birkenmeier, G., Fischer, R., Suttrop, W.	Correlation of kinetic edge data with type-I and mitigated ELMs at ASDEX Upgrade
P4.109 Calderon, F.A., Dendy, R., Chapman, S., Webster, A., Alper, B., Nicol, R.	Identifying low dimensional dynamics in Type I ELMing in JET plasmas
P4.110 da Graça, S.	Poloidal velocity of MHD modes at the edge of the ASDEX Upgrade tokamak
P4.111 Solano, E.R., Vianello, N., Buratti, P., Alper, B., Coelho, R., Devaux, S., Delabie, E., Dodt, D., Figueiredo, A., Frassinetti, L., Howell, D., Lerche, E., Maggi, C., Manzanares, A., Martin, A., Morris, J., Marsen, S., McCormick, K., Nunes, I., Refy, D., Rimini, F., Sirinelli, A., Sieglin, B., Zoletnik, S.	M-mode: axi-symmetric magnetic oscillation and ELM-less H-mode in JET
Webster, A.J., Dendy, R.O., Calderon, F.A., Chapman, S.C., Delabie,	The Statistics of Edge-

<a href="#">P4.112</a>	E., Dodt, D., Felton, R., Todd, T.N., Riccardo, V., Alper, B., Brezinsek, S., Coad, P., Likonen, J., Rubel, M.	Localised Plasma Instabilities
<a href="#">P4.113</a>	Barrera, L., Fischer, R., Fuchs, C., Rathgeber, S., Suttrop, W., Wolfrum, E.	Electron temperature evolution during mitigated ELM regimes in ASDEX Upgrade
<a href="#">P4.114</a>	Bogomolov, A.	Variation of ELM signatures observed by ECE Imaging on ASDEX Upgrade
<a href="#">P4.115</a>	Mc Carthy, P., Dunne, M., Fischer, R., Fuchs, J., Giannone, L., Suttrop, W., Viezzer, E., Wolfrum, E.	Equilibrium reconstruction of local shear in the pedestal on ASDEX Upgrade.
<a href="#">P4.116</a>	Koechl, F., Albanese, R., Ambrosino, R., Militello-Asp, E., Belo, P., Corrigan, G., Garzotti, L., Harting, D., Huysmans, G., Koskela, T., Lang, P.T., Lönnroth, J., de la Luna, E., Mattei, M., Maviglia, F., Parail, V., Rimini, F., Romanelli, M., Saibene, G., Solano, E.R., Valovič, M., Voitsekovich, I., Webster, A.	Integrated core+edge+ SOL +MHD modelling of ELM mitigation at JET
<a href="#">P4.117</a>	Suttrop, W.A., Barrera Orte, L., Fischer, R., Fuchs, J.C., McDermott, R.M., Mlynek, A., Pütterich, T., Rathgeber, S.K., Viezzer, E., Wolfrum, E.	Search for an ELM suppression regime with non-axisymmetric magnetic perturbations at low edge collisionality in ASDEX Upgrade
<a href="#">P4.118</a>	Momo, B., Escande, D., Martines, E., Predebon, I., Terranova, D.	Impact of current density profile on quasi single helicity equilibria in RFX-mod
<a href="#">P4.119</a>	Navratil, G.A.	High resolution study of 3D magnetic fields on tokamak plasmas
<a href="#">P4.120</a>	Terranova, D., Cooper, W.A., Marrelli, L., Paccagnella, R.	Symmetry-breaking modes for helical states in RFX-mod
<a href="#">P4.121</a>	Veranda, M., Bonfiglio, D., Cappello, S.	Stimulated quasi helical dynamics in pinch configurations
<a href="#">P4.122</a>	Martines, E., Lorenzini, R., Piovesan, P., Spolaore, M., Zuin, M., Auriemma, F., Cavazzana, R., Fassina, A., Innocente, P., Marrelli, L., Spizzo, G., Terranova, D.	Scaling properties of Quasi-Single Helicity states in RFX-mod
<a href="#">P4.123</a>	Trevisan, G., Zanca, P., Terranova, D.	Solution of the Grad-Shafranov equation for the helical states of the RFX-mod experiment
<a href="#">P4.124</a>	Cooper, W., Brunetti, D., Graves, J.P., Misev, C., Pfefferle, D., Sauter, O., Tran, T., Chapman, I.T., Lazerson, S.A.	Tokamak MHD Equilibria with 3D Distortions
<a href="#">P4.125</a>	Denner, P., Liang, Y., Yang, Y., Rack, M., Zeng, L., Pearson, J., Xu, Y.	Measuring the plasma response to applied RMPs on TEXTOR
<a href="#">P4.126</a>	Fuchs, J.C., Strumberger, E., Suttrop, W., Barrera Orte, L., Cavedon, M., Birkenmeier, G., Fischer, R., Giannone, L., Guimarais, L., Mc Carthy, P.J., Nikolaeva, V., Wolfrum, E., Vicente, J., Viezzer, E.	Separatrix displacement in the presence of 3D external magnetic perturbations on ASDEX Upgrade
<a href="#">P4.127</a>	Maraschek, M., Fietz, S., Gude, A., G\unter, S., Koslowski, R., Lackner, K., L\uders, K., Lunt, T., Pautasso, G., Strumberger, E., Suttrop, W., Yu, Q., Zohm, H.	Measurement and impact of the n=1 intrinsic error field at ASDEX Upgrade

<a href="#">P4.128</a>	Nishimura, S.	Influence of resonant magnetic perturbation on a rotating helical plasma
<a href="#">P4.129</a>	Frassinetti, L., Menmuir, S., Brunsell, P.	Resonant magnetic perturbation penetration and locking threshold in EXTRAP T2R
<a href="#">P4.131</a>	Constantinescu, D., Dumbrajs, O., Igochine, V., Lackner, K., Zohm, H.	RMP ELM suppression analysis by means of a low-dimensional model system for quasi-periodic plasma perturbations
<a href="#">P4.133</a>	Piron, L., Piovesan, P., Valisa, M., Zaniol, B., Auriemma, F., Baruzzo, M., Bolzonella, T., Bonfiglio, D., Carraro, L., Chacon, L., Marrelli, L., Takechi, M., Veranda, M., Zanca, P., Zuin, M.	Interplay between plasma rotation and magnetic field perturbations in RFX-mod tokamak plasmas
<a href="#">P4.134</a>	Heyn, M., Ivanov, I., Kasilov, S., Kernbichler, W., Leitner, P., Nemov, V.	Kinetic modelling of shielding and amplification of RMPs by the tokamak plasma
<a href="#">P4.135</a>	Mazon, D., Vezinet, D., Sertoli, M., Bilato, R., Casson, F., Angioni, C., Bobkov, V., Dux, R., Gude, A., Guirlet, R., Igochine, V., Malard, P.	Study of heavy impurity poloidal asymmetries induced by ICRH in ASDEX Upgrade using SXR tomography reconstruction
<a href="#">P4.136</a>	Sabot, R., Ghendrih, P., Sirinelli, A., Tamain, P., Bourdelle, C., Brix, M., Calabro, G., Delabie, E., Dif-Padalier, G., Fedorack, N., Garbet, X., Hawkes, N., Maggi, C., Rimini, F., Solana, E.	Dynamic of density profiles in JET during slow L-H transition
<a href="#">P4.137</a>	Tegnered, D., Strand, P., Nordman, H., Fazendeiro, L., Skyman, A., Belo, P., Giroud, C.	Predictive simulations of impurity transport at JET
<a href="#">P4.138</a>	Mollén, A., Pusztai, I., Fülöp, T., Moradi, S., Reinke, M.L., Kazakov, Y.	Impurity peaking in tokamaks
<a href="#">P4.139</a>	Barbui, T., Carraro, L., Kumar, S.T., Den Hartog, D.J., Nornberg, M.	Impurity transport studies in RFX-mod and MST RFPs
<a href="#">P4.140</a>	Mazzotta, C., Pucella, G., Gabellieri, L., Romanelli, M., Botrugno, A., Giovannozzi, E., Marinucci, M., Romano, A., Sozzi, C., Szepesi, G., Tudisco, O.	On the effect of Neon injection on density peaking in FTU plasmas
<a href="#">P4.141</a>	Mantica, P., Angioni, C., Valisa, M., Baruzzo, M., Belo, P., Beurskens, M., Challis, C., Delabie, E., Frassinetti, L., Giroud, C., Hawkes, N., Hobirk, J., Joffrin, E., Lauro Taroni, L., Lehnen, M., Mlynar, J., Pütterich, T., Romanelli, M.	Transport analysis of Tungsten and Beryllium in JET Hybrid Plasmas with the ITER-like wall
<a href="#">P4.142</a>	Angioni, C., Mantica, P., Valisa, M., Baruzzo, M., Belli, E., Belo, P., Beurskens, M., Casson, F.J., Challis, C., Giroud, C., Hawkes, N., Hender, T.C., Hobirk, J., Joffrin, E., Lauro Taroni, L., Lehnen, M., Mlynar, J., Puetterich, T.	Neoclassical and turbulent transport of W in toroidally rotating JET plasmas
<a href="#">P4.143</a>	Dux, R., Fable, E., Kukushkin, A., Loarte, A.	Transport of tungsten in the H-mode edge transport barrier of ITER
<a href="#">P4.145</a>	Martinell, J.J., Basu, D.	Suprathermal Electrons Flux and its Role in the Ambipolar Electric Field in Stellarators
<a href="#">P4.146</a>	Henderson, S.S.	Low-Z perturbative impurity transport and microstability analysis on MAST

<a href="#">P4.147</a>	Kasyanova, N., Andreev, V., Gorbunov, E., Kitaeva, V., Myalton, T., Sergeev, D., Timchenko, N., Chistyakov, V.	Study of the particle escape from the plasma center after on-axis ECRH switching on in the T-10 tokamak
<a href="#">P4.148</a>	Aizawa, M.	Magnetic field properties of confining particles in low aspect ratio L=1 helical systems.
<a href="#">P4.149</a>	Fazendeiro, L., Skyman, A., Tegnér, D., Nordman, H., Strand, P., Anderson, J.	Gyrokinetic simulations of turbulent transport in JET-like plasmas
<a href="#">P4.150</a>	Wiesenberger, M., Kendl, A.	Global nonlinear gyrofluid computation of interchange blobs in tokamak edge plasmas
<a href="#">P4.151</a>	Fogaccia, G., Briguglio, S., Vlad, G.	Benchmark of the HYMAGYC code
<a href="#">P4.153</a>	Maeyama, S., Ishizawa, A., Watanabe, T., Nakata, M., Idomura, Y.	Comparison between kinetic-balloonning-mode-driven turbulence and ion-temperature-gradient-driven one
<a href="#">P4.154</a>	Nakata, M.	Fixed-gradient and fixed-flux full-f simulations of global ion temperature gradient driven turbulent transport
<a href="#">P4.155</a>	Hoenen, O., Fazendeiro, L., Scott, B.D., Borgdorff, J., Hoekstra, A.G., Strand, P., Coster, D.P.	Designing and running turbulence transport simulations using a distributed multiscale computing approach
<a href="#">P4.156</a>	Pusztai, I.	Electron flow driven instability in finite beta plasmas
<a href="#">P4.158</a>	Abud, C.V., Caldas, I.L.	Bifurcation effects on the plasma edge of tokamaks with ergodic limiter
<a href="#">P4.160</a>	Held, M., Kendl, A.	Lattice Boltzmann Model for the Charney-Hasegawa-Mima equation
<a href="#">P4.161</a>	Hariri, F.	A flux-coordinate independent field-aligned approach to plasma turbulence simulations
<a href="#">P4.162</a>	Reynolds-Barredo, J., Newman, D.E., Sanchez, R., Jenko, F.	A novel, semilagrangian, coarse solver for the Parareal technique and its application to 2D drift-wave (BETA) and 5D gyrokinetic (GENE) turbulence simulations
<a href="#">P4.163</a>	Dominski, J., Brunner, S., Aghdam, S.K., Merlo, G., Görler, T., Jenko, F., Told, D., Tran, T., Villard, L.	Simulating the effect of fine radial structures resulting from non-adiabatic passing electrons on turbulent

		transport in the ITG and TEM regimes
P4.165	Bottino, A., Wersal, C., Angelino, P., Scott, B., McMillan, B., Villard, L.	Fluid moments and spectral diagnostics in global gyrokinetic simulations
P4.166	Manas, P.C., Camenen, Y., Benkadda, S., Hornsby, W., Peeters, A.	Collisional stabilisation of trapped electron modes in tokamaks: pitch-angle scattering vs energy scattering
P4.167	Wodniak, I., Cecconello, M., Lake, R., Jones, O., Turnyanskiy, M., Sangaroon, S., Ericsson, G.	TRANSP modelling of experimentally measured fast particle redistribution and losses on MAST
P4.170	Lai, W.	Investigating the anomalous Doppler effect for suprathermal electrons in tokamak plasmas using self-consistent kinetic simulations
P4.172	Bin, W., Figini, L., Bruschi, A.	An analytic model to estimate the coupling efficiency of an ordinary polarized beam to extraordinary mode at the critical density layer
P4.173	Köhn, A., Holzhauer, E., O'Brien, M., Ramisch, M., Vann, R., Williams, T.	Influence of density perturbations on the O-X mode conversion
P4.174	Gospodchikov, E.D., Smolyakova, O.B.	Refraction of electromagnetic waves near electron cyclotron resonance surface in open magnetic trap
P4.175	Popov, A., Gusakov, E., Saveliev, A.	Trapping of electron Bernstein waves in drift-wave eddies and parametric decay instabilities at ECRH experiments in toroidal plasmas
P4.176	Minashin, P.V., Kukushkin, A.B.	Algorithm of self-consistent calculation of EC losses and kinetics of ECRH/ECCD in tokamak-reactors
P4.177	Zurro, B., Baciero, A., Cappa, A., Baião, D., Medina, F., Ochando, M.A., Pastor, I.	Direct observation of suprathermal ion production in ECRH modulation experiments in the TJ-II stellarator
P4.178	Konchekov, E., Kharchev, N., Cappa, A., Petelin, M., Bondar, Y., Borzosekov, V., Malakhov, D., Martinez, J., Novozhilova, Y., Sarkyan, K., Tolkachev, A.	Influence on gyrotron radiation of the low reflected modulated power. New experiments.
P4.179	Poli, E., Farina, D., Figini, L., Goodman, T., Sauter, O., Cavinato, M., Saibene, G., Henderson, M.	ECCD capabilities for NTM stabilization via the Upper Launcher from ramp-up to

		ramp-down phases in ITER
P4.180	Van Eester, D., Cromb��, K., Kyrytsya, V., Petrzilka, V.	RF induced density depletion due to the Ponderomotive force in presence of strong magnetic fields
P4.181	Louche, F., Krivska, A., Messiaen, A., Ongena, J., Dumortier, P., Durodi��, F., Borsuk, V., Schweer, B.	Conceptual design of an ICRH antenna for W7-X: modeling and optimization
P4.183	Teplukhina, A., Aleynikova, K., Aleynikov, P., Konovalov, S.	Calculation of the ICRF heated ion distribution function inside NPA viewing angle in ITER
P4.184	Crombe, K., Unterberg, E.A., Schmitz, O., Ongena, J., Coenen, J.W., Gray, T.K., Pospieszczyk, A., Vervier, M., Wauters, T.	Characterization of Local Plasma Parameters during High Power ICRH discharges at TEXTOR
P4.185	Ding, B.	Effect of launched LH wave spectrum on current profile and MHD activity in Tore Supra
P4.203	Prencipe, I., Zani, A., Dellasega, D., Russo, V., Ceccotti, T., Floquet, V., Sgattoni, A., Macchi, A., Passoni, M.	Production of low-density targets for laser driven ion acceleration
P4.205	Psikal, J.	Numerical study of femtosecond laser pulse interaction with water spray target
P4.207	Schillaci, F., Cirrone, G.A., Carpinelli, M., Cutroneo, M., Cuttone, G., Korn, G., Maggiore, M., Margarone, D., Romano, F., Scuderi, V., Torrisi, L., Tramontana, A., Velyhan, A.	Measurements with an innovative high energy resolution Thomson Parabola Spectrometer
P4.208	Shoucri, M., Matte, J., Vidal, F.	A Vlasov code simulation of ion acceleration and plasma jets driven by a high intensity laser beam
P4.210	Tarkeshian, R., Reimann, O., Muggli, P.	High Sensitivity Plasma Electron Density Measurements in Sources for a Proton-Driven Plasma Wakefield Accelerator
P4.213	Dong, Y.	Recent development of a large-scale parallel PIC code named NEPTUNE3D
P4.214	Kravets, Y., Noble, A., Yoffe, S., Jaroszynski, D.A.	Validity of the Landau-Lifshitz approximation in an ultra-high intensity laser pulse
P4.215	Elkina, N., Ruhl, H.	Adaptive particle-mesh simulation of laser driven plasma at ultra-high intensity
P4.302	Magne, L., Blin-Simiand, N., Pasquier, S.	Propene and propane decomposition in atmospheric pressure nitrogen plasmas

<a href="#">P4.303</a>	Takeuchi, S.	Fluid characteristics of surface wave plasma from the viewpoint of material surface modification
<a href="#">P4.305</a>	Yagi, I.	Measurement of OH radical in atmospheric pressure plasma driven by nano-second pulsed power generator
<a href="#">P4.306</a>	Karima, A.	Cylindrical Ion Acoustic Waves in Multi-component plasma
<a href="#">P4.309</a>	Komuro, A.	Modeling of chemical reactions in an atmospheric pressure plasma: towards an estimation of O, N, and OH radical production
<a href="#">P4.402</a>	Frank, A.G.	Current sheets in the Earth magnetosphere and laboratory experiments
<a href="#">P4.403</a>	Pain, J.	The hybrid opacity code SCO-RCG: recent developments
<a href="#">P4.404</a>	Ridder, S., Mackel, F., Tenfelde, J., Kempkes, P., Soltwisch, H.	FlareLab: Short time-scale diagnostics for rapidly moving magnetic flux tubes
<a href="#">P4.411</a>	Walker, J.J., Koepke, M.E., Zimmerman, M.I., Farrell, W.M., Demidov, V.I.	Signature of Gyro-phase Drift
<a href="#">P5.101</a>	Äkäslompolo, S.J.	ASCOT simulation of fusion product activation probe experiment in ASDEX Upgrade tokamak
<a href="#">P5.102</a>	Maddaluno, G., Almaviva, S., Caneve, L., Colao, F., Fantoni, R., Lecci, S.	LIBS measurements on FTU tokamak
<a href="#">P5.103</a>	Silva, C., Adamek, J., Fernandes, H.	Comparison of fluctuations properties measured by Langmuir and by ball-pen probes in the ISTTOK boundary plasma
<a href="#">P5.105</a>	Birkenmeier, G., Kobayashi, T., Laggner, F., Willensdorfer, M., Wolfrum, E., Carralero, D., Manz, P., Müller, H.W., Fischer, R., Stroth, U.	Investigations of the magnetic field dependence of blob velocity and size with Li-BES at ASDEX Upgrade
<a href="#">P5.106</a>	Meister, H., Willmeroth, M., Zhang, D., Gottwald, A., Krumrey, M., Scholze, F.	Broad-band efficiency calibration of ITER bolometer prototypes using Pt absorbers on SiN membranes
<a href="#">P5.107</a>	Pandya, S.N., Peterson, B.J., Mukai, K., Kobayashi, M., Sano, R., Enokuchi, A., Takeyama, N.	Optics design considerations for improving the sensitivity of the Infrared Imaging Video Bolometer on LHD
<a href="#">P5.108</a>	Karhunen, J., Hakola, A., Likonen, J., Lissovski, A., Paris, P., Laan, M., Porosnicu, C., Lungu, C., Sugiyama, K.	Optimisation of LIBS parameters for analyzing co-

		deposited layers in ITER Progress in understanding halo current in EAST tokamak
P5.109	Shen, B.	
P5.110	Vezinet, D., Mazon, D., Guirlet, R., Sertoli, M., Decker, J., Peysson, Y.	Soft X-Ray cooling factor low dependency on transport: investigating the domain of validity
P5.111	Kappatou, A., McDermott, R.M., Jaspers, R.J., Pütterich, T., Dux, R.	Interpretation of helium charge exchange spectra for transport studies in fusion plasmas
P5.114	Nascimento, F., Machida, M., F. Severo, J.H.	Determination of local temporal electron density and temperature using visible spectroscopy of carbon emissions
P5.115	Dnestrovskij, A., Krupin, V., Klyuchnikov, L., Korobov, K., Naumenko, N., Nemec, A., Tugarinov, S.	Underestimation of ion temperature in CXRS diagnostics of D-alpha spectra
P5.116	Pokol, G.I., Horvath, L., Lazanyi, N., Papp, G., Por, G., Igochine, V.	Continuous linear time-frequency transforms in the analysis of fusion plasma transients
P5.117	Stahl, A., Landreman, M., Fülöp, T., Papp, G., Hollmann, E.	Synchrotron radiation from runaway electron distributions in tokamaks
P5.118	Pacella, D., Gabellieri, L., Romano, A., Causa, F., Murtas, F., Claps, G., Lee, S., Hong, J., Jang, J., Choe, W.	GEM-based energy resolved x-ray tangential imaging system on KSTAR
P5.119	Gabellieri, L., Romano, A., Pacella, D., Causa, F., Murtas, F., Claps, G.	X-ray imaging in tokamaks: characterization of a C-MOS imager (Medipix-2)
P5.120	Czarski, T., Chernyshova, M., Dominik, W., Jakubowska, K., Kasprowicz, G., Poźniak, K., Rzadkiewicz, J., Schlz, M., Zabołotny, W.	Fundamental data processing for GEM detector measurement system applied for X-ray diagnostics of fusion plasmas
P5.121	Zhang, D., Thomsen, H., König, R., Pedersen, T.S., Bozhenkov, S., Otte, M., Jenzsch, H., Greve, H., Grodzki, P., Bräuer, T.	Optimization of lines of sight for tomographic reconstruction of the bolometer diagnostic at the W7-X stellarator
P5.122	Li, D., Svensson, J., Thomsen, H., Medina, P., Zhang, D., Torsten, S., Werner, A., Wolf, R.	Bayesian Tomography of Soft X-ray and Bolometer systems using Gaussian Processes
P5.124	Sangaroon, S., Cecconello, M., Weiszflog, M., Conroy, S., Ericsson, G., Wodniak, I., Keeling, D., Turnianskiy, M.	Conceptual design of a neutron camera upgrade for MAST Upgrade
P5.125	Fassina, A., Franz, P., Ruzzon, A., Gobbin, M., Spagnolo, S., Terranova, D.	Thermal characterization of small scale structures in a RFP plasma

<a href="#">P5.126</a>	Batanov, G.M., Borzosekov, V., Kharchev, N., Kolik, L., Konchekov, E., Malakhov, D., Petrov, A., Pshenichnikov, A., Sarkyan, K., Skvortsova, N., Stepakhin, V.	Collective scattering of gyrotron second harmonic radiation during ECRH for shortwave turbulence research in the L-2M stellarator
<a href="#">P5.127</a>	Kamleitner, J., Coda, S., Decker, J., Graves, J.P., Gnesin, S.	Study of suprathermal electron dynamics by energy-resolved tomography of hard X-ray emission on the TCV tokamak
<a href="#">P5.128</a>	Wongrach, K.	Synchrotron radiation pattern of the runaway beam during induced disruptions in TEXTOR
<a href="#">P5.129</a>	Castejon, F., Guasp, J., Tereshchenko, M., Pastor, I., Álvarez-Estrada, R.	Thomson Scattering spectra of $\alpha$ -particle-heated electrons in ITER
<a href="#">P5.130</a>	Jacobsen, A.S., Salewski, M., Geiger, B., García-Muñoz, M., Heidbrink, W., Korsholm, S.B., Leipold, F., Madsen, J., Michelsen, P., Moseev, D., Nielsen, S.K., Rasmussen, J., Pedersen, M.S., Tardini, G.	Velocity-space tomography using many-view CTS or FIDA systems
<a href="#">P5.131</a>	Nishiura, M., Kubo, S., Tanaka, K.	Progress on collective Thomson scattering diagnostic in the Large Helical Device
<a href="#">P5.133</a>	Guszejnov, D., Bencze, A., Zoletnik, S., Krämer-Flecken, A.	Time delay estimation based method for determining turbulent structure tilting
<a href="#">P5.134</a>	Schlummer, T., Marchuk, O., Bertschinger, G., Biel, W., Reiter, D.	Radial profiles of the neutral gas density and the transport coefficient from imaging X-ray spectroscopy at TEXTOR
<a href="#">P5.135</a>	Sysoeva, E.V., da Silva, F.J., Gusakov, E.Z., Heuraux, S., Popov, A.Y.	Microwave beam broadening in turbulent plasma
<a href="#">P5.137</a>	Punjabi, A.	Golden and noble magnetic surfaces and magnetic shear in tokamaks
<a href="#">P5.138</a>	Mastrostefano, S., Pustovitov, V.D., Liu, Y., Villone, F.	Numerical confirmation of skin-effect influence on RWM analysis
<a href="#">P5.139</a>	Pucella, G., Botrugno, A., Buratti, P., Giovannozzi, E., Marinucci, M., Tudisco, O.	Development of magnetic island near the density limit on FTU
<a href="#">P5.140</a>	Pustovitov, V., Yanovskiy, V.	Resistive wall stabilization of short-wavelength edge modes in tokamaks
<a href="#">P5.142</a>	Baranov, Y.F.	Interplay between confinement, impurities and MHD in JET Hybrid pulses with ITER like wall.
<a href="#">P5.143</a>	Weinzettl, V., Imrisek, M., Havlicek, J., Kripner, L., Seidl, J., Bilkova, P., Bohm, P., Aftanas, M., Kovarik, K., Horacek, J., Vondracek, P.,	Experimental evidence of neoclassical tearing modes

	Adamek, J., Dejarnac, R., Cornelis, D., Janssens, H.	on COMPASS tokamak
P5.144	Patrov, M., Bakharev, N., Gusev, V., Iblyaminova, A., Kurskiev, G., Kornev, V., Khromov, N., Novokhatkiy, A., Petrov, Y., Sakharov, N., Tolstyakov, S., Varfolomeev, V.	Analysis of Globus-M2 operational limits based on Globus-M experimental results
P5.145	Martynov, A., Medvedev, S., Villard, L.	Helically symmetric magnetic islands in tokamaks and negative shear configurations
P5.146	Medvedev, S., Ivanov, A., Khayrutdinov, R., Kuteev, B., Lukash, V.	MHD stability of plasma with large bootstrap current fraction in spherical tokamaks
P5.147	Igochine, V., Barrera Orte, L., Gryaznevich, M., Hobirk, J., Maraschek, M., McCarthy, P., Reich, M., Yadikin, D.	MHD stability of plasma with large bootstrap current fraction in spherical tokamaks
P5.148	Pustovitov, V.D.	Identification of the beta limit in ASDEX Upgrade
P5.149	Turco, F., Hanson, J.M., Lanctot, M.J., Liu, Y.Q., Wang, Z., Navratil, G.A., Turnbull, A.D.	Resistive wall effects on the plasma dynamics in tokamaks
P5.150	Jardin, S.C., Chen, J., Ferraro, N., Gerhardt, S., Breslau, J.	Modeling of rotation and fast-ion effects on RWM stability in DIII-D plasmas
P5.151	Nagata, M.	Nonlinear Calculations of Soft and Hard Beta Limits in NSTX
P5.153	Imada, K., Tronko, N., Wilson, H.R.	Two-fluid dynamo relaxation in the HIST spherical torus plasma
P5.154	Szepesi, T.	Role of Polarisation Current on Neoclassical Tearing Mode Threshold
P5.156	Lepikhin, N.D., Pustovitov, V.D.	Pellet-induced MHD activity in H-mode plasmas at ASDEX Upgrade
P5.157	Liu, C., Huang, Y., Liu, Y., Zhao, K., Zhong, W., Chen, W., Cheng, J., Yao, K., Nie, L., Feng, Z., Yan, L., Ding, X., Dong, J., Duan, X.	Energy approaches and dispersion relations for resistive wall modes
P5.158	Fietz, S., Classen, I., Garcia-Munoz, M., Zohm, H., Bergmann, A., Maraschek, M., Suttrop, W.	Study of L-I-H transitions induced by sawtooth crashes on HL-2A tokamak
P5.159	Tonghui, S.	Interaction of neoclassical tearing modes with externally applied magnetic perturbations at ASDEX Upgrade
P5.160	Xu, L., Hu, L., Chen, K., Li, E., Shen, Y., Zhang, J., Shi, T., Zhou, R., Xu, M.	The features of (2,1) NTMs on EAST tokamak
	Baruzzo, M., Alper, B., Baranov, Y.F., Bolzonella, T., Botrugno, A.,	Experimental Study of Long-lived Saturated Mode in EAST ELM-free H mode Sawtooth Plasma

[P5.161](#) Bourdelle, C., Buratti, P., Coelho, R., Challis, C.D., Chapman, I.T., de Vries, P.C., Dodt, D., Giroud, C., Gelfusa, M., Joffrin, E., Hawkes, N., MHD instabilities in JET Hender, T.C., Hobirk, J., Lupelli, I., Mailloux, J., Orsitto, F., Pucella, G., Sharapov, S.E., Tudisco, O., Valisa, M.

<a href="#">P5.162</a>	Yadykin, D., Fable, E., Medvedev, S., Sauter, O., Vlad, G., Zwingmann, W.	Verification of the equilibrium and MHD stability codes within the Integrated Tokamak Modeling Task Force framework
<a href="#">P5.163</a>	Bernert, M., Kallenbach, A., Eich, T., Happel, T., Lang, P., Potzel, S., Reimold, F., Schweinzer, J., Sieglin, B., Viezz, E., ASDEX Upgrade team, T.	H-mode density limit studies at ASDEX Upgrade
<a href="#">P5.164</a>	Barbato, L., Mastrostefano, S., Ventre, S., Villone, F.	Analysis of disruptions including nonlinear and 3D effects
<a href="#">P5.165</a>	Cianfarani, C., Boncagni, L., Carnevale, D., Esposito, B., Giovannozzi, E., Pucella, G.	MHD signals as disruption precursors in FTU
<a href="#">P5.166</a>	de Vries, P., Baruzzo, M., Hogeweij, D., Jachmich, S., Jofrrin, E., Lomas, P., Murari, A., Nunes, I., Reux, C., Vega, J.	Disruption causes during first operations with the JET ITER-like wall
<a href="#">P5.167</a>	Lukash, V., Kavin, A., Gribov, Y., Khayrutdinov, R., Loarte, A.	Study of ITER plasma position control during disruptions with formation of runaway electrons
<a href="#">P5.170</a>	Kómár, A., Pokol, G.I., Fülöp, T.	Quasi-linear analysis of the extraordinary electromagnetic wave destabilized by runaway electrons
<a href="#">P5.171</a>	Nanobashvili, I.	Possible use of dynamic ergodic divertor as a contactless biasing in tokamaks
<a href="#">P5.172</a>	Agostini, M., Scaggion, A., Scarin, P., Zweber, S.J.	First 2D measurements of the edge turbulence with fast camera in a RFP device
<a href="#">P5.173</a>	Nielsen, A.H., Madsen, J., Xu, G.S., Naulin, V., Rasmussen, J.J., Yan, N.	2D fluid simulations of interchange turbulence with ion dynamics
<a href="#">P5.175</a>	Conway, G.D., Fietz, S., Mueller, H., Kocan, M., Lunt, T., Simon, P., Sutrop, W., Maraschek, M., Happel, T., Viezz, E.	Impact of magnetic perturbation coils on the edge radial electric field in ASDEX Upgrade
<a href="#">P5.176</a>	Manz, P., Boom, J., Wolfrum, E., Birkenmeier, G., Classen, I., Luhmann, N., Stroth, U.	Velocimetry aided wavelet cross-phase analysis of type-I ELM precursors in ASDEX-Upgrade
<a href="#">P5.179</a>	Toufenn, D.L., Guimaraes-Filho, Z.O., Caldas, I.L., Marcus, F.A., Szezech, J.D., Lopes, S., Viana, R.L., Gentle, K.	Analysis of Electrostatic Turbulence Drive in Texas Helimak
<a href="#">P5.180</a>	Yan, N.	Measurement and simulation of intermittent characteristics in the boundary plasma of

		EAST tokamak
P5.181	Spolaore, M., Vianello, N., Martines, E., Cavazzana, R., De Masi, G., Momo, B., Spagnolo, S., Zuin, M.	Edge features of RFX-mod experiment operated in tokamak configuration
P5.182	Spagnolo, S.	Characterization of Microtearing modes in RFX-mod plasma
P5.183	Frassinetti, L., Dodt, D., Beurskens, M., Sirenelli, A., Eich, T., Flanagan, J., Giroud, C., Jachmich, S., Lomas, P., Maddison, G., Neu, R., Nunes, I., Sieglin, B., Kempenaars, M.	ELM energy losses in baseline plasma in JET with the ILW compared to the CFC first-wall
P5.184	Sun, Y.	Electrode biasing experiments in the J-TEXT tokamak
P5.185	Hornung, G.	Turbulence measurements by ultra-fast sweeping reflectometry in Tore Supra
P5.186	Roth, I.	The Structure of Knotty Magnetized Configurations
P5.187	Schrittwieser, R.W.	On the determination of the poloidal velocity and the shear layer in the SOL of ASDEX Upgrade
P5.188	Rosmej, F., Escarguel, A., Lefèvre, T., Stamm, R.	Non-equilibrium radiative properties of fluctuating Helium plasmas
P5.208	Lehmann, G., Spatschek, K.	Self-similar laser pulse amplification via strongly coupled Brillouin scattering in plasma
P5.209	Masek, M., Klimo, O., Jirka, M.	Numerical simulations of a strong laser pulse interaction with a relativistic electron beam for the near future ELI Beamlines experiment
P5.210	Pisarczyk, T., Kalinowska, Z., Badziak, J., Kasperekzuk, A., Borodziuk, S., Rosinski, M., Parys, P., Chodukowski, T., Guskov, S., Demchenko, N., Batani, D., Antonelli, L., Koester, P., Gizzi, L., Labate, L., Cristoforetti, G., Baffigi, F., Ullschmied, J., Krousky, E., Pfeifer, M., Renner, O., Smid, M., Skala, J., Pisarczyk, P.	Investigation of energy transfer from PALS iodine laser beam to shock wave generated in solid target relevant to shock ignition
P5.301	Vaulina, O., Koss, X.	The Brownian motion in statistically equilibrium correlated systems: numerical simulation
P5.302	Lepreti, F., Maero, G., Perrone, D., Romé, M., Capparelli, V., Carbone, V., Vecchio, A.	Nonlinear dynamics of complex electron plasmas
P5.303	Maero, G., Lepreti, F., Paroli, B., Perrone, D., Pozzoli, R., Rome, M.	Particle-In-Cell investigation of magnetized non-neutral dusty plasmas
P5.304	Söderström, D., Pilch, I., Helmersson, U., Brenning, N.	Computer simulation of the collection probability of ions and neutrals on nanoparticles in a plasma

[P5.308](#) Vogman, G.

Continuum kinetic model for low-collisionality plasmas using adaptive mesh refinement

[P5.403](#) Rekaa, V.L., Chapman, S., Dendy, R.

Perpendicular shock reformation and multi-ion species acceleration in astrophysical plasmas

[P5.405](#) Bryson, R.

Modelling of the anomalous Doppler resonance for a laboratory experiment

[P5.406](#) Zhu, H., Chapman, S., Dendy, R.

Robustness of predator-prey models for confinement transitions in tokamak plasmas

[P5.407](#) Honoré, C., Grésillon, D., Tsikata, S., Cavalier, J., Coulette, D., Lemoine, N., Largeau, G., Daniel, G.

Micro fluctuation control and Hall thruster operation

[P5.409](#) Burdakov, A.V., Ivanov, I.A., Sklyarov, V.F., Arzhannikov, A.V., Gavrilenco, D.Y., Kandaurov, I.V., Kasatov, A.A., Kurkuchekov, V.V., Mekler, K.I., Polosatkin, S.V., Popov, S.S., Rovenskikh, A.F., Sudnikov, A.V., Sulyaev, Y.S., Trunov, Y.A., Vyacheslavov, L.N.

Temporal structure of  $\sim 2\omega_p$  emission at plasma heating by long-pulse electron beam

[P5.410](#) Shalashov, A., Golubev, S., Gospodchikov, E., Izotov, I., Mansfeld, D., Viktorov, M.

Generation of stimulated wideband electromagnetic radiation in non-stationary mirror confined plasma produced by ECR discharge

[P5.411](#) Tinakiche, N., Rachid, A.

Stimulated raman scattering in a magnetized electron-positron plasma

[P6.004](#) Devaux, S.

Calibration of an Infrared Camera on JET

[P6.006](#) Ford, O.P., Howard, J., Wolf, R.

Performance tests of the ASDEX Upgrade Imaging Motional Stark Effect diagnostic

[P6.007](#) Henriques, R., Nedzelskiy, I., Fernandes, H., Silva, C., Malaquias, A.

Fluctuation measurements with the Heavy Ion Beam Diagnostic on the tokamak ISTTOK

[P6.008](#) Ivanov, I., Andrey, A., Michail, A., Alexander, B., Sergey, K., Konstantin, M., Vladimir, P., Andrey, R., Vladislav, S., Manfred, T.

Sub-THz Spectrally-Selective Quasi-Optical System

[P6.009](#) Kornejew, P., Triminio Mora, H., Heinrich, S., Hirsch, M.

Final Design of the Dispersion Interferometer for the Wendelstein7-X stellarator

[P6.011](#) Mazon, D., Vezinet, D., Malard, P., Chernyshova, M., Rzadkiewicz, J., Scholz, M., Mlynar, J., Zagorski, R.

Soft-X-ray measurements in WEST using GEM detectors

[P6.012](#) Mlynek, A., Casali, L., Eixenberger, H., Faugel, H., Lang, P., Maraschek, M., Pautasso, G., Sellmair, G.

Improved phase detection schemes for plasma interferometry

[P6.013](#) Orsitto, F.P., Giruzzi, G., Bruschi, A., Bin, W.

Review of possibilities for a Collective Thomson Scattering diagnostic on

		tokamaks
<a href="#"><u>P6.015</u></a>	Petrov, M., Afanasyev, V., Petrov, S., Mukhin, E., Tolstyakov, S., Chugunov, I., Shevelev, A.	Diagnostic systems developed in Ioffe Institute, St.Peterburg, Russia for ITER (Neutral Particle Analysis, Thomson Scattering in Divertor and Gamma Spectrometry)
<a href="#"><u>P6.017</u></a>	Schrittwieser, R.W.	Diamond-coated probe head for measurements in the deep SOL and beyond
<a href="#"><u>P6.019</u></a>	Silburn, S.A., Sharples, R.M., Michael, C.A., Harrison, J.R., Meyer, H., Howard, J., Gibson, K.	2D impurity flow imaging on MAST with coherence imaging
<a href="#"><u>P6.022</u></a>	Yu, D.	Development of neutral-beam-aided diagnostics on HL-2A
<a href="#"><u>P6.023</u></a>	Fenzi, C.	Diagnostic developments for WEST