European Physical Society

38th Conference on Plasma Physics

Strasbourg, France, 27 June – 01 July 2011

Participant Booklet

38th EPS Plasmas Strasbourg 2011

Content

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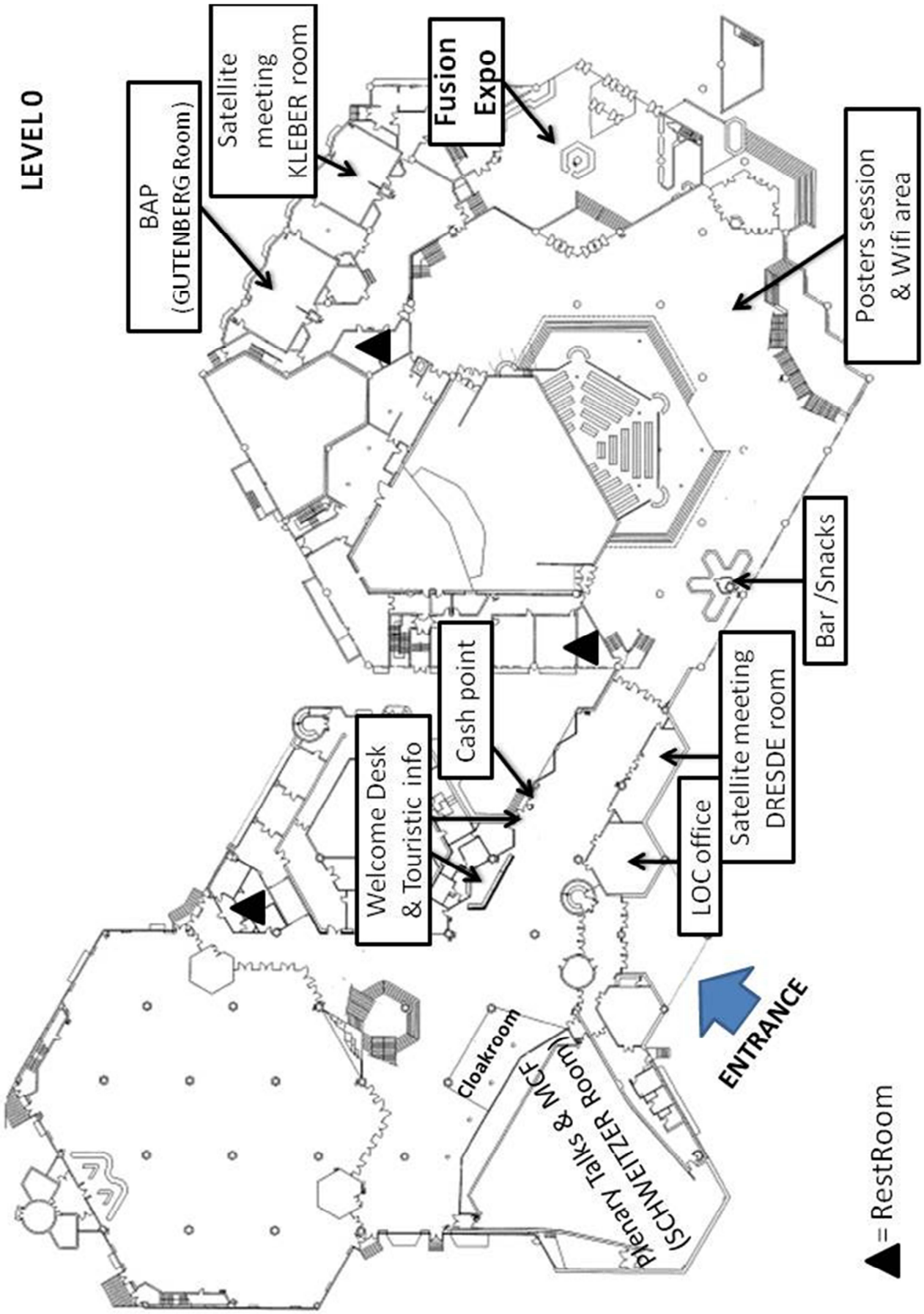
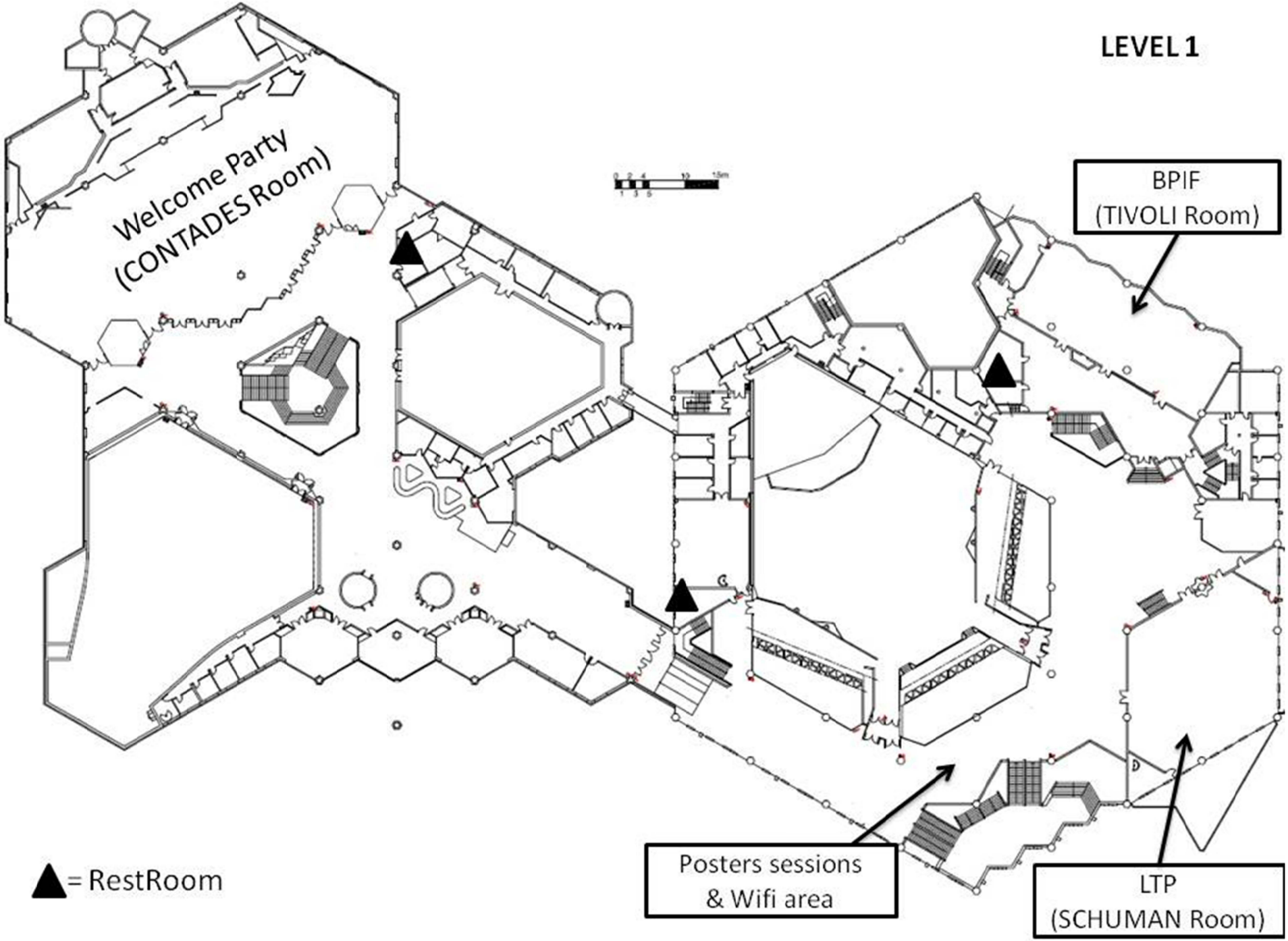
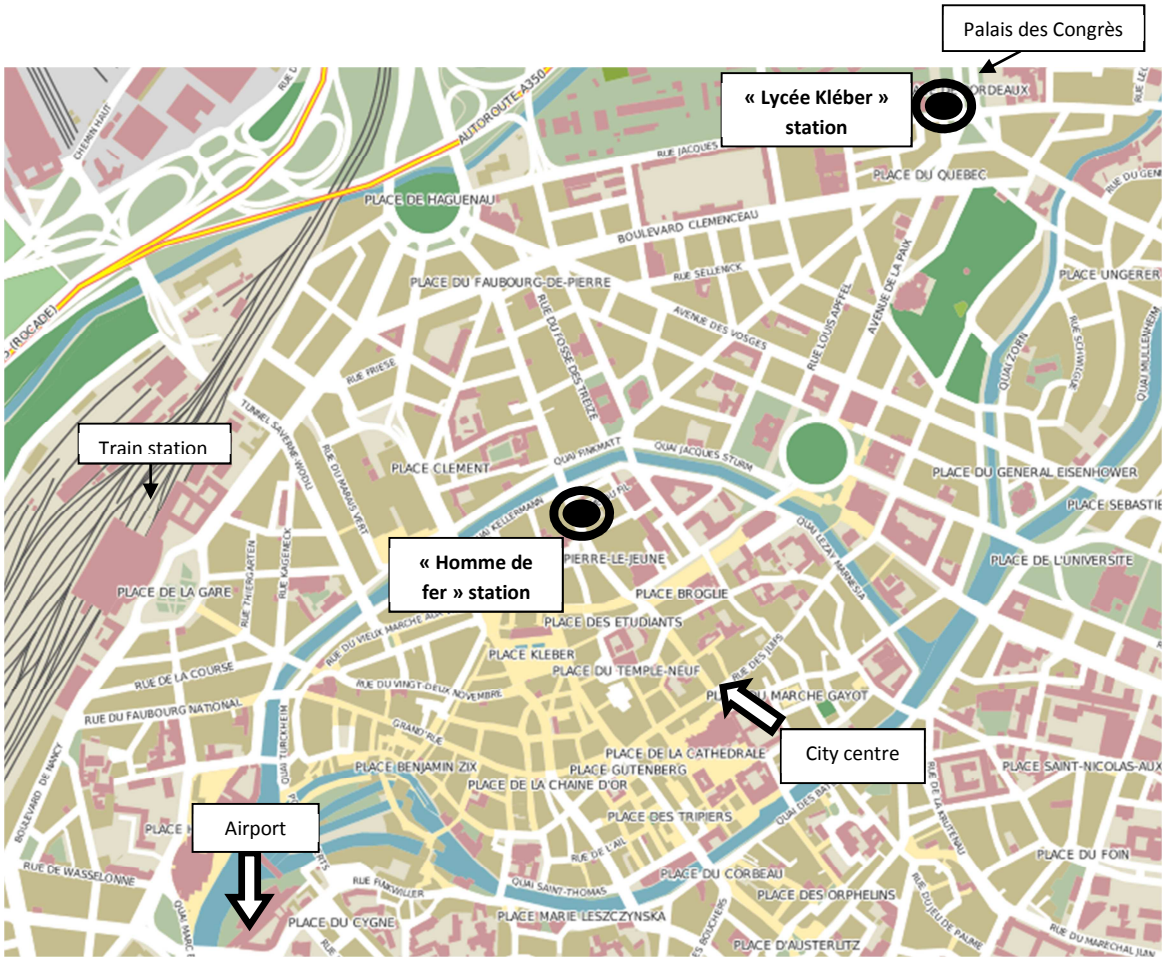
Information for Participants




LEVEL 1
Welcome Party
(CONTADES Room)
BPIF
(TIVOLI Room)
Posters sessions
& Wifi area
LTP
(SCHUMAN Room)
= RestRoom

Get around Strasbourg: City center – Train Station and Airport



- ✓ **<u>Transportation from « EPS Congress » to the city centre:</u>**

Take the trolley car B (« Lingolsheim Tiergaertel" direction) at "Lycée Kléber" to "Homme de fer".

- ✓ **<u>Transportation from "EPS Congress " to the train station:</u>**

Take the trolley car B (« Lingolsheim Tiergaertel » way) at « Lycée Kléber » to « Homme de fer ». Then change to the trolley car C ("Gare Centrale" direction) to "Gare Centrale".

- ✓ **<u>Transportation from "EPS congress" to the airport:</u>**

Take the train "TER Aéroport" at the train station "Gare Centrale" (about nine minutes). There is one train every twenty minutes. For further information, link to: http://www.strasbourg.aeroport.fr/index.php/informations/acces-et-plan/navette-train .

- ✓ **<u>Taxi companies (English speaking):</u>**

Taxi 13: +33(0)3 88 36 13 13
MM Taxi Strasbourg: +33(0)6 75 59 66 83
Mondial Taxi: +33(0)3 88 22 11 11

Basic Tourist Information: Restaurants, Social Events

Restaurants

A bar will be open in the “Palais des congrès” every day and will propose sandwiches and snacks.
Most of Alsatians restaurants are located in the city center, next to the “Homme de fer”, “Winston Chruchill”, “Esplanade”, “Porte de l’Hopital” and “Etoile Bourse” stations.

Social Events

- **Welcome Party, Monday evening 27th June 2011**

The official Welcome Party will take place in the CONTADES room.

- **Wednesday Afternoon Tour, 29th June 2011**

You can still subscribe for one of the tours proposed (according to the number of place available); you have to register as soon as possible at the Tourist desk in the “Palais des congrès” (payment in cash only).
Rendez-vous in front of the **ENTRANCE of the “Palais des congrès” at 1:45 PM and buses will be back at 7:PM at the Palais des congrès.**

- Tour 1: City of Colmar and a winery

Departure from the Palais des Congrès with a coach and English speaking guide to Colmar (approx.60’ drive): a pleasant walking tour, around the high points of the Old Colmar´s architectural heritage. (approx. 1.30 on site)
The tour continues by coach to a very typical Alsatian wine-producing village. Visit in a wine cellar and wine tasting of several Alsatian wines with traditional Kouglopf (local cake).
We will be Back in Strasbourg at approx. 7 PM

- Tour 2: Riquewihr Village and a winery

Departure from the Palais des Congrès with a coach and English speaking guide to Riquewihr (approx.60’ drive). The village is famous for its wines, renowned for centuries and for its architectural richness. The Medieval city of Riquewihr is unique in the world for its ensemble of houses dating from the 15th to 18th centuries and with characteristic half-timbered facades.
The tour continues by coach to a very typical Alsatian wine-producing village. Visit in a wine cellar and wine tasting of several Alsatian wines with traditional Kouglopf (local cake).

- Tour 3: Haut-Koenigsbourg castle and a winery

Departure from the Palais des Congrès with a coach and English speaking guide to Haut-Koenigsbourg castle (approx.60’ drive). A guided visit of this fortified castle, extraordinarily well restored at the beginning of this century, recreates the atmosphere of the end of the Middle Ages by virtue of several interesting collections of furnishings and arms from the 15th through the 17th centuries. (approx.1.30 on site).
The tour continues by coach to a very typical Alsatian wine-producing village. Visit in a wine cellar and wine tasting of several Alsatian wines with traditional Kouglopf (local cake).

- **Medieval Concert, Tuesday evening 28th June 2011**

A concert of medieval music will be offered free of charge to participants and accompanying persons on Tuesday evening (9pm) in St Pierre Le Jeune Church. Access to the concert will require pre-registration at the congress. The concert is open to local inhabitants too. Priority will be given to Conference Participants and Accompanying Persons showing their invitations before 20:40. The closest train station is “Homme de fer” (line A, B and D).

- **Conference Dinner, 30th June 2011**

The organ concert starts at St Thomas Church at 7 PM, please arrive 10 minutes before, you will not be able to enter the church as soon as the concert starts. The train station next to the concert is “Langstross, Grand Rue” (line A or D).
Then dinner takes place at the "Maison Kammerzell", one of the most famous and old restaurants in Strasbourg. The Restaurant is located next to the “Strasbourg cathedral” and we’ll walk t walk). You can see on the map below the location of the church and restaurant.

Accompanying program

(*Tickets are sold next to the welcome desk)*
We need about 15 to 20 participants for each tour to maintain it.
The payment has to be made ***in cash.***

Monday 27th June *- Afternoon from 2 PM to 5 PM*

- **Strasbourg sightseeing**

Departure by coach with an English speaking guide to the city center, passing by the **European Parliament**, the European Court of Human Rights and the Council of Europe.
Then a walking tour in the old pedestrian districts around the cathedral and **the Petite France**, an area listed as World heritage of Humanity by Unesco. Among other things, this tour provides an opportunity to see the former tanners' houses, the covered bridges and the Vauban Dam in the Petite France and of course the famous **cathedral**, a shining example of gothic art.

Price: **36 €**

- **Strasbourg walking and boat tour**

Departure by coach with an English speaking guide to the **Place de la République**.
Removal and walking tour of the German district with the Palace of the Rhine and the National Theater. Then the place Broglie for the discovery of the City hall, the Hotel of the Prefect up to the Cathedral by way of picturesque alleys.
Then boarding at the Rohan castle for a 70 minutes **cruise on the river Ill** around the historical heart of the town. You'll admire the Palais Rohan, sumptuous palace of the Bishops houses, the ancient custom house, the old town port, Saint-Thomas church, "La Petite France", and the European district.

Price: **46 €**

Tuesday 28th of June *- Morning from 9 AM to 12 AM*
There and back with coach: Palais des Congrès

- **Strasbourg – Petite France and Modern Art Museum**

Departure with a coach and english speaking guide from Palais des Congrès to the **Petite France** district, the former tannery neighborhood called "The Plant Bath" where the charming half-timbered houses built along the canals provide a perfect illustration of the traditional image of Alsace.
A guided visit to the **Museum of modern and contemporary art**
Museum located on the banks of the river Ill, on the site of the Former Commandery of the Knights of Saint John. A huge glass nave lights the way for the visitor to walk through the different rooms, spread out over two floors. The originality of the collections lies in the juxtaposition of the works of some of the great 20th c. innovators and make this museum a genuine showcase for modern art. (approx. 1.30)

Price: **41€**

- **Cycling tour of Strasbourg**

Visit Strasbourg with an English speaking guide along the numerous bike-paths. At each stop the guide will give you many commentaries that are both anecdotal and historical. You'll get fresh air and exercise as well as this unique discovery of the city.
Just one condition: know how to ride a bicycle.
Groups of 15 to 20 persons
Please come with the appropriate attire for bike riding (comfortable clothing and sports shoes) and don't forget the sunglasses, a windbreaker and/or biking gloves if you have them....

Price: **58€**

Afternoon from 2 PM to 5 PM
There and back with coach: Palais des Congrès

- **Obernai and Mont Sainte-Odile**

Departure with a coach and english speaking guide from Palais des Congrès to **Obernai** A guided tour of this busy town of the Renaissance age with a proud belfry overlooking the Market square, a town hall finely decorated and pretty half timbered residences which are the genuine witnesses of a rich and renowned past.

Then discover Mount Sainte-Odile, sanctuary where the patron saint of Alsace is buried. You'll visit the Romanesque chapel and, from the terrace, dominated by the statue of Sainte Odile blessing her country, you will take profit of the magnificent panorama of the Plain of Alsace.

Price: **39€**

***Wednesday 29th of June** – Morning from 9 AM to 12 AM*
There and back with coach : Palais des Congrès

- **Potters village**

Departure with a coach and English speaking guide to **Betschdorf**, a village where the pottery making tradition has remained in existence since the Middle Ages. A guided visit of a pottery workshop follows where one can observe both the pottery wheels at work and the art of hand-painted decoration. Short free time to make shopping or admire the authentic half-timbered houses.
Continuing on to **Hunspach**, called the "most beautiful village in France" and **Kuhlendorf**.

Price: **39€**

***Tuesday 30th of June** - Morning from 9.30 AM to 12 AM*
There and back with coach: Palais des Congrès

- **Museum " les secrets du chocolat" and sweet shopping**

Departure with a coach and english speaking guide from Palais des Congrès to the **Museum « les Secrets du Chocolat »**.
After watching a short introduction video, the tour offers entertaining and interactive activities focused on cocoa through the ages and civilizations, the story of processing cocoa and how the cocoa bean turns into chocolate. Tour ends with a demonstration by a professional chocolate maker and also chocolate tasting.
Free time to tate a real hot chocolate in the nice tea room or to go shopping in the shop proposing articles bound to the chocolate of course!
An assortment of 100 g of Grand Cru chocolate "Marquise de Sévigné" will be offered to every participant.
Just a step from the Museum, the **Magasin du Comptoir Français du Thé** proposes you teas, infusions, dishes and accessories, gifts, ends of line, chocolates and candy at extremely attractive prizes.

Price: **45€**

Practical information

- **Upload your presentation**

Speakers, please bring presentations to the **LOC Room** (opposite to the welcome desk) **the day before** your talk, so that we can make sur that it's working well.

- **Find a LOC representative**

If you need to contact any person from the LOC, please come to the LOC room. LOC representative are wearing a **red badge**.
If you have any problem, please contact a LOC representative:
Stéphanie PERCHE: +33(0)6 98 64 35 72

- **Emergency Numbers**

Firemen: 18
Security service: 17
Hospital: 15

- **Connect to Internet**

There is a free wireless access to internet anywhere in the "Palais des congrès" (*except in the conference rooms*).
You don't need any password. The SSID of the WIFI is EPS 2011.

- **Print a Document**

A printer is available at the LOC Room.

- **Pay for extras, find cash**

You can withdraw cash in the "Palais des congrès". The cash point is located next to the welcome desk. (See Map)

- **Visit FUSION EXPO**

The EFDA Fusion Expo will take place all along the Conference week in the Palais des Congrès, for public information about fusion energy. You are all invited to visit FUSION EXPO. Free entrance.

Time Table

Monday 27th June - Morning

7:30 REGISTRATION DESK OPENING

Opening Ceremony - Auditorium Schweitzer

08:30 Opening
Carlos Hidalgo, EPS-PPD Chair

08:35 Welcome Address
Ulrich Stroth, Program Committee Chair
Alain Bécoulet, Local Organizing Committee Chair.
Madame Catherine Trautmann, Vice-President of the Urban Community of Strasbourg

09:00 Prize Winners
2011 EPS Hannes Alfvén Prize: Hasegawa, A., Mima, K. , Diamond P.
2011 EPS Innovation Prize: Litvak, A., Sakamoto, K., Thumm, M.
2011 EPS PhD Research Awards: Kneip, S., Schulze, J., Schwabe, M.

09:20 Hannes Alfvén Prize Lecture 1 *(Chair: C. Hidalgo)*
Hasegawa, A., Mima, K. ; Theoretical developments of strong plasma turbulence and generation of zonal flow.

09:40 Hannes Alfvén Prize Lecture 2 *(Chair: C. Hidalgo)*
Diamond, P.H.; Zonal flows and drift wave turbulence: a look back and a look ahead.

10:00-10:30 Coffee Break

Plenary Session - Auditorium Schweitzer - Chair: U. Stroth

10:30	I1.001 Siegfried Glenzer	Mega-joule experiments on the National Ignition Facility – on the road to produce a microscopic star in the laboratory
11:05	I1.002 Rudolph Neu	Preparing the scientific basis for an all metal wall in ITER
11:40	I1.003 Tuija Pulkkinen	Plasma physics in the sun earth connection

12:15-13:30 Lunch Break

Monday 27th June – Afternoon (Poster Session)

13:30-15:30 - Poster Session 1 – Galerie des Marbres

P1.001 de Assis, A.S.
Kinetic Alfven wave in magnetic monopole plasmas
P1.002 M. Faghihi-Nik, M. Ghorbanalilu
Reflection and transmission of electromagnetic waves by a moving overdense plasma surface
P1.003 Fasoli, A.
Overview of Turbulence and Transport Studies in the TORPEX Simple Magnetized Plasmas
P1.004 I. Fernandez-Gomez, J. R. Martin-Solis and R. Sanchez
Perpendicular dynamics of runaway electrons in tokamak plasmas
P1.005 J. Glosík , P. Dohnal, M. Hejduk, J. Varju, T. Kotrík, P. Rubovič, Š. Roučka, R. Plašil
The state sensitive ternary recombination of para- and ortho-H3+: Application of laser absorption spectroscopy (CRDS)
P1.006 D.Z. Gogichaishvili, G.D. Chagelishvili
Nature and dynamics of pseudo- and shear-Alfven waves overreflection in MHD shear flows
P1.007 St. Kolev, G. J. M. Hagelaar, G. Fubiani and J. P. Boeuf
The physics of magnetic barrier in bounded plasma
P1.008 S. I. Krasheninnikov and A. A. Stepanenko
On the theory of dynamics of dust grain in plasma
P1.009 M.A. Mendoza, J.G. Rubiano, J.M. Gil, R. Rodríguez
R. Florido, P. Martel, E. Mínguez
Equation of state for hot dense matter using a relativistic screened hydrogenic model
P1.010 G. Maero, B. Paroli, F. De Luca, M. Ikram, R. Pozzoli, M. Romé
Dynamical equilibrium of a radio frequency-sustained electron plasma in a Penning-Malmberg trap
P1.011 B. Paroli, F. Cavaliere, M. Cavenago, F. De Luca, M. Ikram, G. Maero,
R. Pozzoli, M. Romé
Thomson backscattering diagnostics of nanosecond electron bunches traveling in a Penning-Malmberg trap
P1.012 C. Paz-Soldan, W. Bergerson, M. Brookhart, D. Hannum, J.S. Sarff, C.C. Hegna, C.B Forest
Stabilization of the Line-Tied Resistive Wall Mode by a Rotating Conducting Wall
P1.013 G. Rodriguez Prieto, A. R. Piriz, N. Tahir
Preliminary experimental results on exploding wire self-similarity
P1.014 R. Rodriguez, J.M. Gil, R. Florido, J.G. Rubiano, M.A. Mendoza,
P. Martel, E. Minguez, D.R. Symes, M. Hohenberger
Analysis of the radiative power loss and cooling function of krypton and xenon plasmas for simulations of radiative shocks launched in clusters
P1.015 J.M.Gil, R. Rodriguez, R. Florido, J.G. Rubiano, A. de la Nuez, M.A. Mendoza, P.Martel, E. Minguez
Emissivity and radiative power loss calculations of carbon plasmas in a wide range of plasma conditions
P1.016 Romannikov, A.
Radial electric field in steady state tokamak plasma and the Ehrenfest's paradox.

P1.017 JG Rubiano, R. Rodriguez, MA. Mendoza, JM Gil,2, R. Florido, P. Martel, E. Minguez
A simple method to account the influence of plasma environments in the atomic structure of weakly coupled plasmas
P1.018 R. Niedrist, R. Schrittwieser
Localized detached glow above a titanium hollow cathode
P1.019 A.L. Khomkin, A.S. Shumikhin
Ion-molecular chemical model for dense metal vapor plasma
P1.020 S. Sultana, G. Sarri, I. Kourakis
Electrostatic solitary and shock structures in nonthermal plasma
P1.021 E. Bromová, I. Duran, O. Grover, J. Kocman, T. Markovic, M. Odstrcil, T. Odstrcil, O. Pluhar, J. Stöckel, V. Svoboda, A. Šindlery, G. Vondrášek, J. Žára.
The tokamak GOLEM for fusion education
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P1.025 Sharkov, B.
Generation of Extreme State of Matter by Isochoric Heating with Intense Heavy Ion Beams
P1.026 L. Antonelli, D. Batani, A. Patria, O. Ciricosta, L. Labate, P. Koester, C. Cecchetti, L. Gizzi, J. Nejdl, M. Kozlovà, B.Rus, A. Moretti, M. Richetta, L. Giuffrida, L.Torrisi, G. Schurtz
Study of laser-matter interaction in an intensity regime relevant for schock ignition
P1.027 J. Gruenwald, R. Stenzel, C. Ionita, R. Schrittwieser
Electron transit time instabilities in inverted fireballs
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P1.029 M. Murakami, J. Sanz, M.M. Basko, S.I. Blinnikov
Self-similar solution for shock propagation with self-gravitation and radiation heat flux
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Investigation of beam-plasma instabilities utilising numerical and experimental methods
P1.032 A. Stockem, Ricardo A. Fonseca, Luis O. Silva
Impact of non-thermal particles on jump conditions in relativistic shocks
P1.033 N. Gambino, A. Anzalone, J. Costello, C. Fallon, S. Gammino, P. Hayden, D. Mascali, F. Musumeci, S.Tudisco
Investigation of colliding plasma plumes generated by thick and thin targets via laser ablation
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A primary dynamic study of quasi-spherical Z-pinch implosions with wire-array loads
P1.037 Chen, M.
A complete convolution theory of nonlocal thermal smoothing in direct-drive laser fusion
P1.038 B. T. Egorychev, A. V. Ivanovsky, A. I. Kraev, V. B. Kudelkin, A. N. Skobelev
Study of a possibility to get spherical symmetry of a quasi-spherical liner implosion under the effect of axial magnetic field
P1.039 O. Henry, C. Féral, D. Villate, E. Bar, V. Beau, P. Canal, L. Chauvel, T. Chies, V. Domin, P. Gendeau, H. Graillot, X. Julien, P. Le Gourrierec, O. Lobios, L. Patissou, D. Raffestin, P. Romary
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P1.042 G. Sarri, C. A. Cecchetti, R. Jung, P. Hobbs, S. James, J. Lockyear, R. M. Stevenson, D. Doria, D. J. Hoarty, O. Willi and M. Borghesi
Spatially resolved measurements of laser filamentation in long scale length underdense plasmas with and without beam smoothing
P1.043 E. Siminos, D. Bénisti, L. Gremillet
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Fast ion temperature measurement using ball-pen probe in SOL of ASDEX Upgrade.

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P1.067 S.Carpentier, S. Lisgo, J.D. Elder, A.S. Kukushkin, R.A. Pitts, P.C. Stangeby

Predictions of Beryllium Erosion-Redeposition and Tritium retention in the ITER main chamber using LIM-DIVIMP

P1.068 Y. Corre, C. Balorin, S. Carpentier, X. Courtois, R. Dejarnac, L. Delpech, C. Desgranges, E. Delchambre, M. Firdahouss, M. Jouve, J-L. Gardarein, J.Gunn, T. Loarer, V. Moncada, V. Martin, M. Prou, F. Saint-Laurent

Experimental study of the heat flux deposition spreading on the TPL of Tore Supra

P1.069 D.Saifaoui; N.Dlimi; A.ElKebch; A.Dezairi, M.El Mouden, A.Boumhali

Modeling and simulation of the erosion in the tokamak 's walls taking into account the magnetic field

P1.070 M. G. Dunne, P.J. McCarthy, E. Wolfrum, R. Fischer, J. Hobirk and teh ASDEX Upgrade Team

A study of inter-ELM pedestal current density evolution in ASDEX Upgrade

P1.071 Y. Feng, T. Lunt, A. Kukushkin, M. Becoulet, T. Casper, T. Evans, H. Frerichs, A. Loarte, R. A. Pitts, D. Reiter, O. Schmitz

EMC3-EIRENE/SOLPS4.3 benchmark for ITER

P1.072 R. Fischer, C.J. Fuchs, B. Kurzan, R. McDermott, T. Pütterich, S. K. Rathgeber, B. Sieglin,W. Suttrop, E. Viezzer, B. Wieland, M. Willensdorfer, E. Wolfrum

Effect of non-axisymmetric magnetic perturbations on profiles at ASDEX Upgrade

P1.073 M. Forster , K.H. Finken, M. Lehnen , J. Linke, B. Schweer, C. Thomser, O. Willi, Y. Xu and the TEXTOR team

Spectral and radial distributions of runaway electrons in a disruption at TEXTOR

P1.074 Goldston, R.

An heuristic drift-based model of the power scrape-off width in H-mode tokamaks

P1.075 A. Poyé, O. Agullo, A. I. Smolyakov, S. Benkadda, X. Garbet

Saturation of tearing modes: small and large magnetic islands

P1.076 Y. Asahi, Y. Suzuki, K Y Watanabe, W. A. Cooper

MHD equilibrium analysis with anisotropic pressure in LHD

P1.077 A. Pitzschke, R. Behn, B. P. Duval, G. Induni, S. Yu. Medvedev, L. Porte, O. Sauter and TCV team

Dynamics of pedestal profiles in ELMy H-mode plasmas in TCV at different collisionalities

P1.078 J.W. Berkery, S.A. Sabbagh, R. Betti, R.E. Bell, S.P. Gerhardt, B.P. LeBlanc, J. Manickam, and M. Podesta

Resistive wall mode kinetic stability advancements for refined comparison with experiments

P1.079 A. Botrugno, O. Tudisco, M. Apicella, P. Buratti, G. Mazzitelli, G. Pucella

Effect of Lithium on MHD Activity at FTU

P1.080 G.P. Canal, J. Graves, A. Pochelon, H. Reimerdes, B.P. Duval, F. Felici, T. Goodman, O. Sauter, D. Testa and the TCV Team

Coupling between sawteeth and tearing modes in TCV

P1.081 A.J. Cerfon, F.I. Parra, J.P. Freidberg

Asymptotic expansion for Stellarator equilibria with a non-planar magnetic axis

P1.082 M.J. Choi, G.S. Yun, J. Lee, W. Lee, H.K. Park, C.W. Domier, N.C. Luhmann, Jr, B. Tobias, A.J.H. Donné, and KSTAR team

Detailed 2-D imaging of growth and burst of edge-localized filaments in KSTAR H-mode plasmas

P1.083 D. Curran, Ph. Lauber, P.J. Mc Carthy, S. da Graça, V. Igochine

Low-frequency Alfvén eigenmodes during the sawtooth cycle at ASDEX Upgrade

P1.084 S.da Graça, G.D.Conway, P.Lauber, V. Igochine, D. Borba, D.Curran, I. Classen, M.Garcia-Munoz, M.Marachek, M.A.VanZeeland, A. Silva, F. Serra, M.E.Manso, N. C. Luhman, H. K. Park and the ASDEX Upgrade Team
Fast particle mode studies with NBI heating on ASDEX Upgrade using reflectometry
P1.085 L. Delgado-Aparicio, R. Granetz, J. Rice, S. Scott, Y. Podpaly, M. Bitter, C. Gao, E. Fredrickson, K. Hill, N. A. Pablant, M. L. Reinke and R. Wilson
Formation of impurity-induced snakes in Alcator C-Mod
P1.086 M. Drevlak, J. Geiger, P. Helander
Improved Fast Particle Confinement from Optimised Coil Currents
P1.087 A.G. Elfimov, R.M.O. Galvão, R.J.F. Sgalla
Rotation effect on geodesic modes in tokamak plasmas with isothermal magnetic surfaces
P1.088 S. Nowak, E. Lazzaro, D. Brunetti, B. Esposito, G.Granucci, M. Maraschek, H. Zohm
Analysis of NTM (de)stabilization by ECH in ASDEX Upgrade
P1.089 J.R. Ferron, C.T. Holcomb, T.C. Luce, P.A. Politzer, F. Turco, J.C. DeBoo, E.J. Doyle, A.W. Hyatt, Y. In, R.J. La Haye, M. Murakami, M. Okabayashi, J.M. Park, T.W. Petrie, C.C. Petty, H. Reimerdes, T.L. Rhodes, A.E. White, and L. Zeng
Design parameters for DIII-D steady-state scenario discharges
P1.090 J. C. Fuchs, T. Eich, L. Giannone, A. Herrmann, T. Lunt, P. de Marné, P. J. McCarthy, W. Suttrop, W. Schneider, and the ASDEX Upgrade Team
Influence of non-axisymmetric magnetic perturbations on the equilibrium reconstruction at ASDEX Upgrade
P1.091 J. P. (Hans) Goedbloed and Jeffrey Freidberg
Poloidal and toroidal plasma rotation and resistive wall modes in tokamaks
P1.092 G. Z. Hao,Y. Q. Liu, A. K. Wang , H. B. Jiang, Gaimin Lu, H. D. He, and X. M. Qiu
Stabilization of the resistive wall mode instability by trapped energetic particles
P1.093 S. R. Haskey, B. D. Blackwell, M. J. Hole, D. G. Pretty, J. Howard
Initial results from the new Helical Mirnov Array for the H-1NF Heliac
P1.094 P.B. Aleynikov, S.V. Konovalov, V.M. Leonov, V.I. Afanasyev, M.I. Mironov, A.A. Teplukhina
Monte Carlo calculations of the fast ion distribution function for needs of NPA diagnostics in ITER
P1.095 F. Bombarda, A. Frattolillo, S. Migliori, S. Podda, M. Capobianchi, L. R. Baylor, S.K. Combs, C.R. Foust, S. Meitner, D. Fehling, B. Coppi, G. Roveta
The high density regimes for the Ignitor Experiment
P1.096 C. Castaldo, A. Cardinali, M. Marinucci
A superthermal nuclear fusion reactor
P1.097 S. Ceccuzzi, R. Maggiora, D. Milanesio, F. Mirizzi and L. Panaccione
Validation of Lower Hybrid coupling codes (Brambilla GRILL3D-U TOPLHA) with the FTU conventional grill
P1.098 W S Cook, S C Chapman and R O Dendy
Simulations investigating the dependence on plasma beta of fusion-product-driven electron current in tokamak plasmas
P1.099 D.D'Andrea, R.Schneider, J.Neudorfer
High order PIC simulation of high power millimetre wave sources components for fusion applications
P1.100 V. Fuchs, R. W. Harvey, R. A. Cairns, J. Urban, F. Žáček, Y. Peysson, J. Decker, M. Preynas, M. Goniche, J. Hillairet
Assessment of lower hybrid current drive system for COMPASS

P1.101 V. Fusco and A. Cardinali
Numerical and analytical solution of the lower hybrid electromagnetic wave equation in one-dimensional geometry for propagating and mode converted waves
P1.102 M.Goniche, P.Sharma, Y.Baranov, V.Basiuk, C.Castaldo, R.Cesario, J.Decker, L.Delpech, A.Ekedahl, K.Kirov, D.Mazon, T.Oosako, Y.Peysson, M.Prou
Lower hybrid current drive efficiency at high density on Tore Supra
P1.103 D.L. Green, E.F. Jaeger, L.A. Berry, G. Chen, J.M. Canik and P.M. Ryan
Whole-Device Linear Full-Wave Simulation of High Harmonic Ion Cyclotron Heating in H-Mode Tokamak Plasmas
P1.104 K.Besseghir, J.B. Lister
On-line scenario optimisation for ITER
P1.105 J.B.Lister, K.Besseghir, J-F.Artaud, R.R.Khayrutdinov, S.H.Kim, V.E.Lukash
Development of the DINA-CH full tokamak simulator
P1.106 T. A. Casper, Y. Gribov, S.H. Kim, C.E. Kessel, W.H. Meyer, T. Oikawa, L.D. Pearlstein, J.A. Snipes, and L. Zabeo
Modeling development for control for ITER advanced scenarios
P1.107 Z. Y. Chen, W. C. Kim, A. C. England, and J. W. Yoo
Generation and termination of runaway currents in KSTAR
P1.108 S.Djordjevic, M. de Baar, M.Steinbuch, J.Citrin, G.M.D.Hogeweij
Controllability analysis for the magnetic flux in ITER
P1.109 V.N. Dokuka, R.R. Khayrutdinov, S.V. Mirnov, V.E. Lukash, Yu.A. Kareev
Study of plasma and runaway currents evolution in process of killer-pellets injection in like ITER tokamak plasmas
P1.110 J. Abiteboul, X. Garbet, V. Grandgirard, S.J. Allfrey, Ph. Ghendrih, G. Latu, Y. Sarazin, A. Strugarek
Momentum conservation and gyrokinetic simulations of toroidal rotation
P1.111 M. Aizawa and Y. Nagamine
Particle confinement and magnetic field properties of improved low aspect ratio L=1 helical systems
P1.112 K. Allmaier, S. V. Kasilov, W. Kernbichler
Delta f Monte Carlo computations of parallel conductivity in stellarators
P1.113 V. V. Nemov, S. V. Kasilov, W. Kernbichler, V. N. Kalyuzhnyj, K. Allmaier
Calculations of high energy particle losses for stellarators in real space coordinates
P1.114 G. Antar, M. Goniche, L. Colas, A. Ekedahl
The Scrape-off layer Intermittent Structures Suppressed by the Ion Cyclotron Resonance Heating
P1.115 L.G. Askinazi, A.D. Komarov, V.A. Kornev, S.V. Krikunov, L.I. Krupnik, S.V. Lebedev, V.V. Rozhdestvensky, A.S. Tukachinsky, M.I. Vildjunas, N.A. Zhubr
GAM evolution in the H-mode discharge of the TUMAN-3M tokamak
P1.116 O. Asunta, S. Äkäslompolo, T. Kurki-Suonio, S. Sipilä, M. García-Muñoz and the ASDEX Upgrade team
Fast ion wall loads in ASDEX Upgrade in the presence of magnetic perturbations due to ELM mitigation coils
P1.117 A. Bañón Navarro, P. Morel, M. Albrecht-Marc, D. Carati, F. Merz, T. Görler & F. Jenko
Free-energy transfers in gyrokinetic turbulence
P1.118 Battaglia, D.J, Chang, C., Kaye, S.M., Ku, S, Maingi, R.
Dependence of the LH power threshold on the X-point radius

P1.119 P. Belo, V. Parail, I. Nunes, G. Corrigan, J. Lonnroth, C. Maggi, D. C. McDonald and JET EFDA contributors
Simulations of the H to L transition in JET plasmas
P1.120 V. Berionni and Ö. D. Gürcan
Predator prey oscillations in a simple cascade model of drift wave turbulence
P1.121 K Bodi, G Ciraolo, F Schwander, E Serre
Impact of the Boussinesq approximation in tokamak scrape--off layer turbulence
P1.122 J.A. Boedo, V.A. Izzo, O. Schmitz, D.L. Rudakov, H. Reimerdes, D.M. Orlov, T.H. Osborne, T.E. Evans, C. Holland, G. Tynan and R.A. Moyer
Plasma response to magnetic field perturbations in DIII-D
P1.123 J.E. Boom, E. Wolfrum, I.G.J. Classen, P.C. de Vries, B.J. Tobias, C.W. Domier, N.C. Luhmann Jr., H.K. Park, and the ASDEX Upgrade Team
2D ECE-Imaging measurements of Type-II Edge Localized Modes (ELMs) at ASDEX Upgrade
P1.124 J. Brotankova, D. Sangwan, R. Jha, R. Singh, Rameswar Singh
Role of Reynolds stress and its divergence in the intrinsic flow generation in ADITYA tokamak
P1.125 D.L. Brower, W.X. Ding, L. Lin, W.F. Bergerson, A. Almagri, G. Fiksel, D. J. Den Hartog, J.R. King, M. Miller, V.V. Mirnov, J. A. Reusch, J.S. Sarff, C.R. Sovinec
Fluctuation-Induced Momentum Transport and Plasma Flows in a Magnetically-Confined Toroidal Plasma
P1.126 Iván Calvo and Felix I. Parra
Second-order electrostatic gyrokinetics in general magnetic geometry and its relevance for toroidal momentum transport in tokamaks
P1.127 Y. Camenen, Y. Idomura, N. Dubuit, S. Jolliet, A.G. Peeters
Consequences of profile shearing on toroidal momentum transport
P1.128 D. Carralero, I. Calvo, B.A. Carreras, K. Ida, B. Ph. van Milligen, M. A. Pedrosa, S. Sakakibara, M. Shoji, H. Yamada, C. Hidalgo
Recent Results on the Search for Self Organization of Plasma Edge Fluctuations
P1.129 Lorella Carraro, Italo Predebon, F.Auriemma, T.Barbui, P.Franz, S.C.Guo, M.E.Puiatti, A.Ruzzon, P.Scarin, M.Valisa
Outward impurity convection in the RFX-mod Reversed Field Pinch
P1.130 Matt Landreman and Peter J. Catto.
Neoclassical flow current and electric field in a quasi-isodynamic stellarator
P1.131 C. H. Liu, Y. Huang, Y. Liu, Y. Zhou, L. Nie, D. L. Yu, J. Cheng, X. Q. Ji, Z.B. Shi, Z.Y. Cui, Q.W. Yang, L.W. Yan, J. Zhou, X.T. Ding, J.Q. Dong, X. R. Duan, and the HL-2A Team
Studies on particle confinement in HL-2A ECRH plasma
P1.132 J. Cheng, L. W. Yan, J. Q. Dong, K. J. Zhao, W. Y. Hong, Z. H. Huang, T. Lan, A. D. Liu, D. F., Kong, X.Q. Ji, Q. W. Yang, X.T. Ding, X. R. Duan and Yong Liu
Fluctuation suppression induced by gas puffing in HL-2A
P1.133 J. Citrin, J. Hobirk, M. Schneider, J.F. Artaud, C. Bourdelle, K. Crombe, G.M.D. Hogeweij, F. Imbeaux, E. Joffrin, F. Koechl, J. Stober, the AUG team, JET-EFDA contributors, and the ITM-TF ITER Scenario Modelling group
Predictive transport analysis of JET and AUG hybrid scenarios
P1.134 D.J. Clayton, K. Tritz, D. Stutman, D. Kumar, M. Finkenthal, R. Bell, and B. LeBlanc
Edge transport measurements with the new multi-energy soft-x-ray diagnostic on NSTX
P1.135 T. Zhou and B. Coppi

Heavy particle modes and signature of the i-regime

P1.136 K. Crombé, Y. Xu, X.Xu, A. Bogomolov, C. Giroud, A. Krämer-Flecken, Y.Liang, J. Ongena, Y. Sun, G. Van Oost, G. Verdoolaege and JET EFDA Contributors

Experimental observation of non-resonant toroidal rotation braking with a magnetic perturbation field on JET

P1.137 C.A. de Meijere, S. Coda, A. Krämer-Flecken, S. Soldatov

Observations on turbulence dynamics and beam-ion driven modes on the TEXTOR tokamak

P1.138 D.Dickinson, C.M.Roach, and H.R.Wilson

Probing the linear structure of toroidal drift modes

P1.139 T. Tala, A. Salmi, P. Mantica, C. Angioni, G. Corrigan, P.C. de Vries, C. Giroud, J. Ferreira, J. Lönnroth, V. Naulin, A.G. Peeters, W. Solomon, D. Strintzi, M. Tsalas, T.W. Versloot, J. Weiland, K.-D. Zastrow and JET-EFDA contributors

NBI modulation experiments to study momentum transport and magnetic field induced ripple torque on JET

P1.140 L. Volpe, A. Morace, G. Birindelli and D. Batani, M. H. Xu, F. Liu, Y. Zhang, Z. Zhang, X. X. Lin, F. Liu2, S. J. Wang, P. F. Zhu, L. M. Meng, Z. H. Wang, Y. T. Li, Z. M. Sheng, Z. Y. Wei, J. Zhang, L. Gremillet

Laser-driven electron beams in matter

Monday 27th June – Afternoon (Oral Sessions)

Auditorium Schweitzer – MCF- Chair: P. Helander

16:00 I1.101 F. Jenko Developing a predictive capability for tokamaks and stellarators: Nonlinear gyrokinetics from the system size to the electron gyroradius
16:30 I1.102 A. Bottino Global particle-in-cell simulations of microturbulence in tokamaks: finite-beta effects and collisions
17:00 I1.103 E. Highcock Transport bifurcations and subcritical turbulence
17:30 I1.104 Y. Peysson RF current drive and plasma fluctuations

Room Tivoli – BPIF- Chair: R. Piriz

16:00 I1.201 M. Koenig Warm Dense Matter in experiments
16:30 I1.202 R. Nagler Warm Dense Matter experiments on FELs
17:00 I1.203 P. Heissler Single cycle attoseconpulses from Relativistically Oscillating Mirrors.
17:30 I1.204 N. Tahir Physics at high energy densities generated by ion beams

Room Schumann – LTP/MCF- Chair: J. Allen

16:00 I1.301 R. Pitts The ITER plasma-wall interaction challenge
16:30 I1.302 G. Hagelaar Plasma transport across magnetic field lines in low-temperature plasma sources
17:00 I1.303 M. Groth Poloidal distribution of recycling sources and score plasma fuelling in DIII-D, ASDEX Upgrade and JET L-mode plasmas
17:30 O1.301 P.W. Gingell Hybrid code investigation of the physics of multi-species plasma blobs in magnetic Fields
17:45 O1.302 S. Takamura W nano structure

Room Gutenberg – BAP- Chair: D. Grésillon

16:00 I1.401 I. Furno Understanding and taming plasma blobs in toroidal magnetized plasmas
16:30 I1.402 T. Windisch Nonlinear mode coupling and structure formation in drift-wave turbulence
17:00 I1.403 O. F. Petrov Dusty plasmas in the presence of external forces
17:30 I1.404 S. McConville Laboratory simulations of auroral radio emissions

18:00 Free Time

18:30 Auditorium Schweitzer

Madame Catherine Cesarsky, High Commissioner to Atomic Energy
Welcome address: The fourth state of matter: challenges for modern physics

19:00 Welcome reception – Espace Contades

20:30 Close

Tuesday 28th June - Morning

Plenary Session - Auditorium Schweitzer - Chair: H. Zohm

08:30 Innovation Prize Lecture
Litvak, A., Sakamoto, K., Thumm, M Innovation on high-power long-pulse gyrotrons

09:05 I2.004 P. Martin Near and beyond the limits: MHD stability and its active control in magnetized fusion plasmas

09:40-10:10 Coffee Break

Parallel Oral sessions
Auditorium Schweitzer – MCF- Chair: V. Antoni

10:10 I2.105 I. Classen Investigation on fast particle driven instabilities by 2D electron cyclotron emission imaging on ASDEX Upgrade and DIII-D
10:40 I2.106 B. Esposito Disruption avoidance by means of ECRH
11:10 I2.107 R. Cavazzana Physics challenges and answers in the Reversed Field Pinch MA operation
11:40 I2.108 I. Chapman Sawtooth control in tokamaks

Room Tivoli – BPIF- Chair: N. Andreev

10:10 I2.205 L. Willingle Proton probing of laser-plasma interaction phenomena: Fast advection of magnetic fields and high-power laser channeling
10:40 I2.206 H. Ruhl Particle Dynamics in extreme laser fields – the effect of self fields.
11:10 02.201 Y. Xu Beneficial effect of x-ray emission from laser-irradiated high-Z layer with CH foam coating.
11:25 02.202 C. Li Proton imaging of hohlraum plasma stagnation in inertial confinement fusion experiments
11:40 02.203 G. Debras Study of shock-coalescence on the LIL.
11:55 02.204 O. Rosmej Experiments on indirect heating of low density foam layers

Room Schumann – LTP- Chair: A. Rousseau

10:10 I2.304 Braithwaite, N.S. Electrical diagnostics of technological plasmas
10:40 I2.305 J. Roepcke Applications of Infrared Absorption Techniques for Plasma Diagnostics in Basic Research and Industry
11:10 I2.306 G. Dilecce Laser-aided diagnostics of high-pressure discharges
11:40 02.303 S. Potzel Detached inner divertor plasmas with and without Nitrogen seeding and Resonant Magnetic Perturbation
11:55 02.304 Brandenburg,R On the spatio-temporal development of microdischarges in pulsed driven volume dielectric barrier discharges.

Room Gutenberg – BAP- Chair: N. Vilmer

10:10 I2.405 Warmuth, A. Globally propagating waves in the solar corona

10:40 I2.406 Poedts, S. Simulations of coronal mass ejections

11:10 02.401 Rebusco, P. Magnetic field configurations plasma structures and relevant physical regimes associated with observed black holes

11:25 02.402 Vranjes, J. Transverse kinetic drift wave and stochastic heating

11:40 02.403 Dizière, A. Experimental study of collimation effects on laser driven plasma jets

11:55 02.404 Fiuza, F. Weibel mediated collisionless shocks in laboratory with ultraintense lasers

12:10-13:30 Lunch Break

Tuesday 28th June – Afternoon (Poster Session)

13:30-15:30 - Poster Session 2 – Galerie des Marbres

P2.001 K.M. Gillespie, K. Ronald, S.L. McConville, D.C. Speirs, A.D.R. Phelps, R.Bingham, A.W. Cross, C.W. Robertson, C.G. Whyte,W. He, R.A. Cairns, I.Vorgul and B.J Kellett
Experimental and simulated investigations of auroral radio emissions
P2.002 D. C. Speirs, K. Ronald, S. L. McConville, K. M. Gillespie, A. D. R. Phelps, A. W. Cross, R. A. Cairns, I. Vorgul, R. Bingham, B. J. Kellett
Numerical investigation of astrophysical cyclotron emission processes
P2.003 Lapenta, G., Markidis, S.
Modelling Relativistic Acceleration with Energy Conserving PIC
P2.004 A. Bret, E. Perez Alvaro
Unstable spectrum of a relativistic proton beam-magnetized plasma system
P2.005 V.N.Tsytovich and A.V.Ivlev
Acceleration of small astrophysical grains due to charge fluctuations in dust space clouds
P2.006 A. V. Arzhannikov, A. V. Burdakov, P. V. Kalinin, S. A. Kuznetsov, M. A. Makarov, K. I. Mekler, S. V. Polosatkin, V. V. Postupaev, A. F. Rovenskikh, S. L. Sinitsky, V. F. Sklyarov, V. D. Stepanov, Yu. S. Sulyaev, M.K.A. Thumm, L. N. Vyacheslavov
Subterahertz emission by strong turbulent plasma at two-stream instability of high current REB
P2.007 R. Barni, C. Riccardi, A. Fredriksen
Structure dynamics associated with temperature fluctuations in the magnetised plasma of the Thorello device
P2.008 D.I. Skovorodin, A.D. Beklemishev
Influence of ambipolar potential on axial losses from mirror traps in semi-collisional regime
P2.009 Nicolas Besse, Yves Elskens, D F Escande and Pierre Bertrand
On validity of quasilinear theory
P2.010 G. Bousselin, J. Grünwald, C. Brandt, N. Lemoine and G. Bonhomme
Investigation of cross-field transport in a linear magnetized plasma using emissive probes
P2.011 A. V.Burdakov, A.A.Ivanov, E.P.Kruglyakov
Study of high-β plasma stability and transverse losses in the experiments on modern magnetic mirrors
P2.012 T.A. Carter, D.W. Auerbach, S. Vincena, and P. Popovich
Control of gradient-driven instabilities via nonlinear interaction with shear Alfven waves
P2.013 J. Cavalier, N. Lemoine, S. Tsikata, C. Honoré, D. Grésillon
Estimation of the electron temperature in the plasma of a Hall thrusters.
P2.014 G.D. Chagelishvili, J.G. Lominadze
Flow non-normality induced linear dynamics in drift wave - zonal flow systems: generation of Alfvenic-like fluctuations
P2.015 S. E. Namini, H. Zakeri
Dispersion relation of a cylindrical magnetized plasma waveguide by using green function method
P2.016 K.W. Gentle, W.L. Rowan, Ken Liao, Bo Li
Flow shear and turbulence suppression in the Helimak
P2.017 M. Gilmore, T.R. Hayes and S. Xie

Flow profile changes and fluctuation suppression in a large scale helicon plasma with electrode biasing

P2.018 D. Grésillon, C. Honoré, S. Tsikata

Fluctuation-induced electron transport in the observed turbulent E-field of the Hall effect thruster

P2.019 A. K. Ram, K. Hizanidis, Y. Kominis, P. Zestanakis and C. Tsironis

Scattering of radio frequency waves by edge density blobs and fluctuations in tokamak plasmas

P2.020 A. Köhn, E. Holzhauer, U. Stroth

Full-wave simulations of the O-X conversion in plasmas with fluctuations

P2.021 I.Katanuma, S.Masaki, S.Sato, K.Sekiya, M.Ichimura, and T.Imai

Numerical Simulation of Flute Modes in the GAMMA10 A-divertor

P2.022 T. Kobayashi, S. Inagaki, H. Arakawa, S. Oldenbürger, M. Sasaki, Y. Nagashima, T. Yamada, S. Sugita, M. Yagi, N. Kasuya, A. Fujisawa, S.-I. Itoh and K. Itoh

Observation of nonlinear coupling on azimuthal mode number space in cylindrical magnetized plasma

P2.023 Fei Liu, David Hwang, Robert Horton, Russell Evans, Zhuofan Huang, Chris Chan

Laser-driven beat-wave current drive in an unmagnetized plasma

P2.024 Mendonca, J., Shukla, P.K.

Ion-acoustic waves in a non-stationary ultra-cold neutral plasma

P2.025 S. Oldenbürger, S. Inagaki, H. Arakawa, T. Kobayashi, K. Uriu, K. Kawashima, A. Fujisawa, K. Itoh and S.-I. Itoh

Drift wave regimes and cross-field transport in the PANTA

P2.026 Lemoine, N., Oldenbürger, S., Bousselin, G., Inagaki, S., Kobayashi, T., Brandt, C., Brochard, F., Bonhomme, G., Itoh, K., Itoh, S.

Dynamics of mode number bicoherence computed from two-dimensional data of a magnetized plasma column

P2.027 C.J. Rapson, O. Grulke, T. Klinger

Numerical and experimental investigation of the ion beam driven instability.

P2.028 Rostomyan, E.

Influence of electron-ion collisions on development of Buneman instability

P2.029 M. Čerček, T. Gyergyek, B. Fonda, J. Kovačič, C. Ioniţă, J. Grünwald and R. Schrittwieser

Use of emissive probes in complex plasmas

P2.030 M. Chaudhuri, S. A. Khrapak and G. E. Morfill

Measurement of particle charge in the plasma bulk: From moderate to very high pressures

P2.031 H. Maurer, R. Basner, H. Kersten

Micro-particles as calorimetric probes in a low-pressure rf-discharge

P2.032 P. Sadler, M. Hundt, H. Kersten

Diagnostics of particle forming process plasmas

P2.033 E. A. Lisin, O. S. Vaulina, X. G. Koss, O. F. Petrov, V. E. Fortov

Experimental study of interaction between dust particles in laboratory rf- plasma by independent measurement techniques

P2.034 J. M. Díaz Cabrera, M. V. Lucena Polonio, J. I. Fernández Palop, R. Morales Crespo, M. A. Hernández and J. Ballesteros

Experimental Study of Cold Plasmas Considering Positive Ion Temperature

P2.035 K. J. McCarthy, T. Oishi, J. Arévalo, B. Milligen, B. Zurro, and J.M. Fontdecaba

A beam emission spectroscopy diagnostic for the TJ-II stellarator

P2.036 J. Rzadkiewicz, W. Dominik, M. Scholz, K-D. Zastrow, M. Chernyshova, T. Czarski, K. Jakubowska, L. Karpinski, A. Komarzewski, H. Czyrkowski, R. Dabrowski, I. M. Kudla, K. Kierzkowski, Z. Salapa, P. Blanchard, S. Tyrrell, K. Pozniak, G. Kasprowicz, W. Zabolotny and JET EFDA Contributors
Development of a 1D Triple GEM X-ray detector for a high-resolution x-ray diagnostics at JET
P2.037 T. Antonova, S.A. Khrapak, C.-R. Du, H.M. Thomas and G.E. Morfill
Self-excited instability in a confined dust particle cloud
P2.038 B.A. Klumov, S.A. Khrapak, G.E. Morfill
Hard Sphere System: From Dense Random Close Packing to Dense Crystalline Packing
P2.039 M. Schwabe, P. Huber, A.V. Ivlev, M. Rubin-Zuzic, H. M. Thomas, G. E. Morfill, A. Lipaev, V. Molotkov, O. Petrov, V. Fortov
Crystallization fronts in 3d complex plasmas in microgravity
P2.040 *(canceled)*
P2.041 S. Efimov, L. Gilburd, A. Fedotov-Gefen, V. Tz. Gurovich, G. Bazalitsky and Ya. E. Krasi
The effect of reflecting walls on the parameters of the water compressed by cylindrical converging shock wave
P2.042 S.V. Bobashev, A.V. Erofeev, T.A. Lapushkina, N.P. Mende, V.A. Sakharov, S.A. Ponyaev ,P.A. Popov, B.I. Reznikov, V.A. Sakharov,
Ionized supersonic flow control by MHD methods
P2.043 A.V. Erofeev, T.A. Lapushkina, S.A. Ponyaev
Magnetic and electric fields actions on supersonic body streamline in ionized flow
P2.044 Naoyuki Sato, Yoshinori Yoshida, Shinya Yanagisawa, Tomokazu Kishida, and Takashi Ikehata
Plasma synthesis of ZnO transparent conductive film for multi-junction solar cells
P2.045 H.-J. Woo, S.-G. Cho, S.-H. Hong, E.-K. Park, S.-J. Park, K.-S. Chung, and H.-J. Lee
Development of Transport and Removal experiment of Dust (TReD) for the Tokamak Dust Controls
P2.046 de Assis, A.S.
What can be understood as safety culture in nuclear fusion activities?
P2.047 R. F. Ellis,A.B. Hassam,R. Elton,R.Reid,C.A. Romero-Talamas,W.C. Young
Overview of the Maryland Centrifugal Experiment
P2.048 K. Gál, P.T. Lang, R. Dux and ASDEX Upgrade Team
Room temperature solid state pellets for ELM mitigation studies
P2.049 J. Eriksson, C. Hellesen, E. Andersson Sundén, M. Cecconello, S. Conroy, G. Ericsson, M. Gatu Johnson, S.D. Pinches, S. Sangaroon, S.E. Sharapov, M. Skiba, M. Weiszflog, I. Wodniak and JET EFDA contributors
Finite Larmor radii effects in fast ion measurements as demonstrated using neutron emission spectrometry of JET plasmas heated with 3rd harmonic ICRF
P2.050 S. J. Freethy, B. K. Huang, V. F. Shevchenko, R. G. L. Vann
Recent progress with MAST synthetic aperture imaging radiometer
P2.051 K. Fujii, T. Shikama, M. Goto, S. Morita, M. Hasuo
Fast and high-resolution spectroscopy of a Balmer-alpha line profile for an LHD plasma
P2.052 J. M. Gao, W. Li, L. G. Zang, J. Lu, Z. W. Xia, P. Yi and Y. Liu
Infrared imaging bolometer for HL-2A Tokamak
P2.053 A.V. Gorbunov, I.V. Moskalenko, N.A. Molodtsov, D.A. Shcheglov, D.A. Shuvaev
Development of laser induced fluorescence system for ITER divertor plasmas

P2.054 D. Guszejnov, G. I. Pokol, I. Pusztai, D. Refy
Applications of the RENATE beam emission spectroscopy simulator
P2.055 K. W. Hill, M. Bitter, L. Delgado-Aparicio, N. Pablant, D. Johnson, R. Feder, P. Beiersdorfera, J. Dunna, K. Morrisa, E. Wanga, J. Wena, M. Reinkeb, Y. Podpalyb, J. E. Riceb, R. Barnsleyc, M. O'Mullaned, S. G. Lee
Development of spatially resolving x-ray crystal spectrometers (XCS) for measurement of ion-temperature and flow-velocity profiles in ITER
P2.056 J. Horacek, J. Adamek, H.W. Müller, R. Schrittwieser, A.H. Nielsen, and ASDEX Upgrade Team
Analysis of ion temperature measurements in the SOL of ASDEX Upgrade from ball-pen probe characteristics
P2.057 R. Imazawa, Y. Kawano, Y. Kusama
Development of a safety-factor profile identification method for assessing measurement accuracy of the ITER poloidal polarimeter
P2.058 M. Ishikawa, T. Kondoh, Y. Kusama
Detailed analysis of in-situ calibration of neutron flux monitors for ITER
P2.059 A. Kappatou, E. Delabie, R.J.E. Jaspers, M.G. von Hellermann
Feasibility of charge exchange spectroscopy fast helium measurements on ITER
P2.060 N V Kosolapova , E Z Gusakov , S Heuraux
Numerical modeling of turbulence wave number spectra reconstruction using radial correlation reflectometry in Tore Supra and FT-2 tokamaks
P2.061 *(canceled)*
P2.062 S.A. Grashin, I.I. Arkhipov, V.P. Budaev, A.V. Karpov, K.Yu. Vukolov
Redeposition of the carbon in the SOL of the T-10 tokamak and its influence on reflectivity of the in-vessel mirrors.
P2.063 P. Leitner, M. F. Heyn, I. B. Ivanov, S.V. Kasilov, W.Kernbichler
Resonant magnetic field perturbations and the quasilinear response of the tokamak plasma
P2.064 M. Mulec, I. B. Ivanov, M. F. Heyn, S.V. Kasilov, W.Kernbichler
Kinetic aspects of resistive wall modes
P2.065 Suk-Ho Hong, Sang-Joon Park, Jae-Myung Choe, Young-Mu Jeon, Seung-Jae Yang, Sun-Taek Lim, Sooseok Choi, Young-Gil Jin, Chong Rae Park, and Gon-Ho Kim
Deposition/erosion and H retention characteristics in gaps of PFCs in KSTAR studied by cavity technique
P2.066 A.Wolff, J. Horacek, R. Dejarnac
Simulating surface temperature of divertor target plate of ITER tokamak during ELMs
P2.067 A. Järvinen, S. Wiesen, K. Krieger, M. Groth, S. Brezinsek and JET EFDA contributors
DIVIMP tungsten erosion and transport simulations of an ELM cycle in a JET type-I ELMy H-mode plasma
P2.068 S. Jachmich, T. Eich, G. Arnoux, S. Brezinsek, S. Devaux, W. Fundamenski, C. Giroud, H.R. Koslowski, Y. Liang, G. Maddison, H. Thomsen and JET-EFDA contributors
Power fluxes to plasma-facing components in ELM-mitigated H-mode discharges at JET
P2.069 S. Kim, S. H. Hong, K. Itami, M. Matsukawa, J. G. Bak, K P. Kim, J. Chung, Y. U. Nam, S. I. Park, W. C. Kim, and KSTAR team
Effect of BV and BH on the plasma wetted area and removal efficiency of Electron Cyclotron Wall Conditioning in KSTAR

P2.070 C.C. Klepper, L. Colas, R.C. Isler, M. Goniche, G. Antar, Ph. Lotte, G. Colledani, C. Balorin, T.M. Biewer, D.L. Hillis, J.H. Harris, P. Monier-Garbet, Y. Marandet
Spectroscopic Characterization of the Plasma in the Near-Field an ICRH Antenna on Tore Supra
P2.071 H.-J. Klingshirn, D. Coster, X. Bonnin
Scrape-off layer plasma fluid simulations with fully unstructured adaptive grids
P2.072 M. Kočan, S. Y. Allan, S. Elmore, J. P. Gunn, A. Herrmann, A. Kirk, M. Kubič, H. W. Müller, R. A. Pitts, V. Rohde and ASDEX Upgrade Team
ELM ion energies in the ASDEX Upgrade far scrape-off layer
P2.073 M.Komm, A. Wolff,R. Dejarnac,J. Horacek, J.P. Gunn, Z. Pekarek.
3D PIC simulations of gap crossings in castellated plasma-facing components
P2.074 M. Kubič, J.P. Gunn, L. Colas, E. Faudot, S. Heuraux, A. Ngadjeu
Attenuation of ICRH-induced potentials in the SOL of Tore Supra
P2.075 A.S. Kukushkin, H.D. Pacher, G.W. Pacher, V. Kotov, R.A. Pitts, D. Reiter
ITER divertor operation in low power discharges
P2.076 B. Labit, I. Furno, F. Piras and the TCV TEAM
Scrape-Off Layer Properties of Single-Null and Snowflake Diverted Plasmas in TCV
P2.077 J. W. Haverkort, H. J. de Blank, B. Koren
Low-frequency MHD spectrum of rotating tokamak plasmas
P2.078 M . Hölzl, W.-C. Müller, P. Merkel, G. Huysmans, C. Konz, S. Günter, R. Wenninger, J.E. Boom, M. Dunne, ASDEX Upgrade Team
Non-linear simulations of ELMs in ASDEX Upgrade with JOREK
P2.079 V. Igochine, E. Fable, J. Hobirk, M. Reich, H. Zohm, ASDEX Upgrade team
Comparison of different sawtooth crash models for transport analysis
P2.080 N.V. Ivanov, A.M. Kakurin
Locking of small magnetic islands by error field in T-10 tokamak
P2.081 J.X.Li, Y.D.Pan, J.H.Zhang
TSC simulation of the first ohmic discharge in HL-2M
P2.082 T. Kanki, M. Nagata, Y. Kagei
Nonlinear MHD simulation of magnetic relaxation during multi-pulsed helicity injection in spherical torus plasmas
P2.083 M.Yu.Kantor and the TEXTOR team
Deviations from Maxwellian electron distribution in the reconnection region of magnetic islands in the TEXTOR tokamak
P2.084 M. W. M. Khan, P. R. Brunsell, L. Frassinetti, S. Menmuir, K. E. J. Olofsson, and J. R. Drake
Braking of Plasma Rotation by Non-axisymmetric Magnetic Fields in EXTRAP T2R
P2.085 R.R. Khayrutdinov, A.Yu. Kuyanov, V.E. Lukash, A.V. Zvonkov
Study of electron cyclotron heating efficiency during tokamak plasma start-up with use of DINA and OGRAY codes
P2.086 Kyungjin Kim, L. Terzolo, and Yong-Su Na
Determination of the parameters in the Modified Rutherford Equation for Time-dependent Simulations of the Neoclassical Tearing Mode and Its Application to ITER
P2.087 J.D. King, R.J. La Haye, C.C. Petty, T.H. Osborne, C.J. Lasnier, M.J. Lanctot, M.A. Makowski, C.T. Holcomb, S.L. Allen, and E.C. Morse
Magnetic island evolution due to ELM-NTM coupling in DIII-D
P2.088 R.J. La Haye, R.J. Buttery, S.P. Gerhardt, S.A. Sabbagh, and D.P. Brennan

Aspect ratio effects on neoclassical tearing modes from comparison between DIII-D and NSTX
P2.089 Jeongwon Lee, Y. M. Jeon, Kyoung-Jae Chung, Y. S. Hwang and Yong-Su Na
Equilibrium Analysis of KSTAR and VEST using a Newly Developed Equilibrium Reconstruction Code
P2.090 Y.Q. Liu, A. Kirk, Y. Sun, Y. Gribov, M.P. Gryaznevich, T.C. Hender, E. Nardon
Toroidal modelling of plasma response and RMP field penetration
P2.091 Baruzzo, M., Bolzonella, T., Cavazzana, R., In, Y.
Feedback control of the 2/1 mode in RFX-mod tokamak plasmas with qedge≈2
P2.092 P.J. Mc Carthy, S. O'Mahony and The ASDEX Upgrade Team
Eigenface representation of equilibrium flux using Function Parameterization
P2.093 S.Yu.Medvedev, A.A.Ivanov, A.A.Martynov, Yu.Yu.Poshekhonov, Y.R.Martin, J-M.Moret, F.Piras, A.Pochelon, H.Reimerdes, O.Sauter, L.Villard and the TCV team
Advanced shaping and stability limits in the TCV tokamak
P2.094 N. Mellet, P. Maget, H. Lütjens, D. Meshcheriakov, X. Garbet, M. Brix, I. Jenkins and JET EFDA Contributors
Neoclassical viscous stress tensor for NTM simulations with XTOR
P2.095 H. Höhnle, J. Stober, K. Behler, A. Herrmann, W. Kasparek, R. Neu, M. Reich, U. Stroth, W. Treutterer and the ASDEX Upgrade Team
Electron cyclotron resonance heating in the second harmonic ordinary mode at ASDEX Upgrade
P2.096 A. Hannan, T. Hellsten and T. Johnson.
On Fast Wave Current Drive at Higher Cyclotron Harmonics
P2.097 Y. Kominis, A. K. Ram, A. Papadopoulos, P. Zestanakis, C. Tsironis and K. Hizanidis
Kinetic formulation of RF induced current drive and heating in high temperature toroidal fusion plasmas
P2.098 J.C. Hosea, J-W Ahn, R.E. Bell, C. Domier, E. Fredrickson, T. Gray, S. Kaye, B.P. LeBlanc, K.C. Lee, R. Maingi, E. Mazzucato, A. McLean2, C.K. Phillips, Y. Ren, L. Roquemore, P.M. Ryan, G. Taylor, K. Tritz, J.R. Wilson, and the NSTX Team
Properties of HHFW electron heating generated H-modes in NSTX
P2.099 H. Kasahara, K. Saito, T. Seki, R. Kumazawa, G. Nomura, F. Shimpo, S. Kubo, T. Shimozuma, H. Igami, T. Wakatsuki, H. Watada, H. Idei, S. Masuzaki and T. Mutoh
The impact of ICRF heating using newly installed phasing antenna in LHD
P2.100 Y. Nam, I. Hong, M. Kim, W. Lee, G. S. Yun, H. K. Park
Laboratory test of the microwave imaging reflectometry concept
P2.101 D. Liu, A. F. Almagri, J.K. Anderson, B.E. Chapman, V.I. Davydenko, P. Deichuli, D.J. Den Hartog, G. Fiksel, C.B. Forest, A.A. Ivanov, M.D. Nornberg, S. V. Polosatkin, J. S. Sarff, N. Stupishin, J. Waksman
Fast ion confinement studies in the MST reversed field pinch
P2.102 N.B. Marushchenko, C.D. Beidler, P. Helander, S.V. Kasilov, W. Kernbichler, H. Maassberg
Calculations of ECCD with parallel momentum conservation and finite collisionality
P2.103 A. Matsuyama, F. Köchl, B. Pégourié, R. Sakamoto, G. Motojima, J. S. Mishra, and H. Yamada
Modelling of pellet ablation and homogenization for outboard side injection in the Large Helical Device
P2.104 O. Meneghini, S. Shiraiwa, I. Faust, R.R. Parker, A. Schmidt, G. Wallace
Validation of the LHEAF code against Alcator C-Mod LHCD discharges

P2.105 L.Giannone, M.Reich, W.Treutterer, R.Fischer, J.C.Fuchs, K.Lackner, H.R.Koslowski, M.Maraschek, P.J.McCarthy, A.Mlynek, J.Stober and the ASDEX Upgrade Team
Real time magnetic equilibria for NTM stabilisation experiments
P2.106 E.M. Hollmann, P.B. Parks, D.A. Humphreys, N.H. Brooks, N. Commaux, N.W. Eidietis, T.E. Evans, R.C. Isler, A.N. Jame, T.C. Jernigan, J. Munoz-Burgos, E.J. Strait, C. Tsui, J.C. Wesley, and J.H. Yu
Measurement of runaway electron beam composition and estimate of resulting collisional decay of runaway electron currents in DIII-D
P2.107 F. Koechl, V. Parail, M. Mattei, R. Ambrosino, G. Corrigan, L. Garzotti, C. Labate, D. C. McDonald and JET EFDA contributors
Self-consistent predictive modelling of 15 MA inductive scenarios in ITER
P2.108 V. Leonov, S. Konovalov, S. Putvinski, V. Zhogolev
Study of power re-radiation and runaway electrons generation during impurity injection for disruption mitigation in ITER
P2.109 V.E. Lukash, A.A. Kavin, Yu.V. Gribov, R.R. Khayrutdinov, A.B. Mineev
Simulation of ITER plasma scenarios starting from initial discharge of central solenoid
P2.110 G.Marchiori, M. Baruzzo, T. Bolzonella, Y.Q. Liu, L. Marrelli, R. Paccagnella, P. Piovesan, A.Soppelsa, F. Villone
RWM control modelling in RFX-mod Tokamak plasmas
P2.111 X.D. Zhang, G.Wu, Y. Liu
The changes of ion orbit and radial electric field effect in tokamak
P2.112 F.-X. Duthoit, J. Decker, Y. Peysson and A.J. Brizard
Orbit-averaged guiding-center Fokker-Planck operator with an anisotropic background particle field
P2.113 T. Estrada, T. Happel, C. Hidalgo, E. Ascasíbar, E. Blanco and the TJ-II Team
Coupling between turbulence and flows during edge transport barrier formation and annihilation
P2.114 T. Fülöp, S. Moradi, I. Pusztai and A. Mollén
The role of poloidal asymmetries in impurity transport
P2.115 E. Fable, C. Angioni, J. Hobirk, G. Pereverzev, F. Ryter, B. Scott, G. Tardini, the ASDEX Upgrade Team
Transport modelling of a plasma current scan discharge set of ASDEX Upgrade and application to current ramps
P2.116 R. Farengo, H. E. Ferrari, M. Zarco, P. L. Garcia-Martinez, M.-C. Firpo, A. F. Lifschitz
Simulation of alpha particle dynamics with experimentally reconstructed displacement eigenfunctions in sawtooth oscillations
P2.117 L. Federspiel, B.P. Duval, O. Sauter, Y. Andrebe, T.P. Goodman, A. Karpushov
Rotation studies in transport barriers on TCV
P2.118 C. Fenzi, R. Dumont, D. Elbeze, X. Garbet, Z. O. Guimarães-Filho, P. Hennequin, P. Maget and the Tore Supra team
Toroidal magnetic field ripple and fast particle effects on plasma rotation in Tore Supra
P2.119 E. D. Fredrickson, N. A. Crocker, D. Darrow, N. N. Gorelenkov, S. Kubota, M. Podesta, A. Bortolon, R. E. Bell, B. LeBlanc, F. M. Levinton, H. Yuh
Internal amplitude measurements of CAE and GAE
P2.120 G. Fuchert, T. Boettcher, M. Ramisch, U. Stroth
High-speed imaging of turbulent fluctuations in TJ-K
P2.121 E. Narita, T. Takizuka, M. Iida, Y. Tanaka, A. Isayama, K. Itami, T. Fukuda

Impact of Te/Ti in H-mode confinement database
P2.122 J. Garcia, G. Giruzzi, E. Joffrin and JET-EFDA contributors
Determination of the requirements for the sustainment of hybrid scenarios on JET
P2.123 F.P. Gennrich, A. Kendl and B.D. Scott
Analysis of the temperature influence on Langmuir probe measurements on the basis of gyrofluid simulations
P2.124 Yu.V.Gott, E.I.Yurchenko
Convective and diffusion transport in tokamaks with high plasma pressure
P2.125 N. Guertler, K. Hallatschek
The impact of the parallel Reynolds stress on the prediction of zonal flows
P2.126 Gurcan, O.D.
Renormalization of the transport due to toroidal ITG turbulence
P2.127 A.D. Gurchenko, E.Z. Gusakov, A.B. Altukhov, S. Leerink, A.Yu. Stepanov, E.P. Selyunin, L.A. Esipov, D.V. Kouprienko, S.I. Lashkul, M.Yu. Kantor
Investigation of GAM dynamics and spatial structure in the FT-2 tokamak
P2.128 A.D. Gurchenko, E.Z. Gusakov, S.I. Lashkul, A.B. Altukhov, A.Yu. Stepanov, E.P. Selyunin, L.A. Esipov, M.Yu. Kantor, D.V. Kouprienko
Evolution of turbulence wave number spectra during helium puffing into the FT-2 tokamak hydrogen discharge
P2.129 W. Guttenfelder, J. Candy, S.M. Kaye, W.M. Nevins, E. Wang, R.E. Bell, G.W. Hammett, B.P. LeBlanc, D.R. Mikkelsen, H. Yuh
Nonlinear gyrokinetic simulations of microtearing mode turbulence
P2.130 R. Hager, K. Hallatschek
The nonlinear dispersion relation of geodesic acoustic modes
P2.131 Haines, M.G.
Some mechanisms for intrinsic rotation in tokamaks
P2.132 K. Hallatschek, G.R. McKee
Theory of external geodesic acoustic mode excitation
P2.133 P. Hill, S. Saarelma, B. McMillan, A. Peeters, E. Verwichte
Perpendicular wavenumber dependence of ExB flows on linear stability of global ITG modes
P2.134 G.M.D. Hogeweij, T.A. Casper, J. Citrin, F. Imbeaux, F. Köchl, X. Litaudon, ITM-TF ITER Scenario Modelling group
Optimization of the current ramp-up phase for hybrid ITER discharges
P2.135 *(canceled)*
P2.136 Ihor Holod and Zhihong Lin
Gyrokinetic Simulations of Toroidal Angular Momentum Transport in Drift-Wave Turbulence
P2.137 M. Honda, A. Fukuyama, N. Nakajima
Neoclassical relationship between the radial electric field and the radial current in tokamak plasmas
P2.138 V.I. Ilgisonis, V.P. Lakhin, A.I. Smolyakov, E.A. Sorokina
Geodesic acoustic modes in arbitrary rotating tokamak plasma
P2.139 S.J. Janhunen, J.A. Heikkinen, T.P. Kiviniemi, T. Korpilo, S. Leerink
On validation verification and integrated modelling of transport in tokamaks with ELMFIRE
P2.140 J. Riemann, P. Helander, H. Smith
2D model for runaway electron energy amplification in a vertical disruption
P2.141 R. G. L. Vann, S. Freethy and V. F. Shevchenko

Using electron Bernstein wave emission to measure tokamak edge current

Post-deadline posters

PD2.01 Lungu, C.
Thermionic vacuum arc plasma processing of combinatorial Be, C and W films
PD2.02 Bolzonella, T
Active Quasi Single Helicity transitions at high plasma densities
PD2.03 Hahm, T.S.
Undamped Fine Scale Zonal Flow and Its Influence on Isotopic Dependence of Confinement
PD2.04 Bagryansky, P.
Design of auxiliary ECR heating system for the Gas Dynamic Trap
PD2.05 Lalousis, P.
Self-consistent 3D calculation of the ablation rate of pellets with high injection velocities
PD2.06 Maeyama, S.
An efficient numerical method for gyrokinetic d f Vlasov simulations in helical plasmas
PD2.07 Martynov, A.
Helically symmetric magnetic islands: equilibrium and stability
PD2.08 Taccogna, F.
Kinetic Divertor Modeling
PD2.09 Hartmann, T.
Power Exhaust in Next-Step Fusion Devices
PD2.10 Zuin, M.
Ion temperature measurements by means of a neutral particle analyzer in RFX-mod plasmas
PD2.11 Coulette, D.
Linear analysis of cylindrical ITG instability using Multi-Water-bag gyrokinetic models

Tuesday 28th June – Afternoon (Oral Sessions)

Auditorium Schweitzer – MCF- Chair: R. Neu

16:00 I2.109 Suttrop W. First observations of ELM mitigation with new active in-vessel saddle coils in ASDEX Upgrade
16:30 02.101 Nishiura, M. Observation of fast ion velocity distribution and driven waves by Collective Thomson Scattering Diagnostic in the Large Helical Device
16:45 02.102 Huber, A. Radiation heat loads on plasma-facing components of JET during the massive gas injection experiment
17:00 02.103 Konz. C. First physics applications of the Integrated Tokamak Modelling (ITM-TF) tools to the MHD stability analysis of experimental data and ITER scenarios
17:15 02.104 Scannell, R. Evolution of the edge pressure gradient during the ELM cycle on MAST
17:30 02.105 Piovesan, P. Inclusion of 3D wall effects in MHD feedback control for RFP and tokamak plasmas
17:45 02.106 Clairet, F. Intermittent turbulence measurements with ultra-fast sweep reflectometry on Tore Supra

Room Tivoli – BPIF+PhD Prizes- Chair: M. Kaluza

16:00 I2.207 Fuchs J. Particle Acceleration
16:30 I2.208 McKenna, P. Effect of lattice structure on fast electron transport in solids irradiated by ultraintense picosecond laser pulses
17:00 PhD Prize1 Kneip, S. Bright spatially coherent synchrotron X-rays from a table-top source.
17:20 PhD Prize2 Schulze, J. Electron heating in capacitively coupled radio frequency discharges.
17:40 PhD Prize3 Schwabe, M. Dynamical effects in fluid complex plasmas.

Room Schumann – LTP/MCF- Chair: F.J. Gordillo-Vasquez

16:00 I2.307 Lucena-Polonio, M. Diagnostic of Ion Species With A Mass Spectrometer In Plasmas
16:30 I2.308 Matejcik, S. Ion mobility mass spectrometry for impurity measurements
17:00 Close

Room Gutenberg – BAP- Chair: R. Brandenburg

16:00 I2.407 Garnier D.T. Turbulent transport in a laboratory magnetospheric dipole
16:30 I2.408 Fisch N. Ion Acceleration in Rotating Magnetized Plasma
17:00 Close

18:00 ITER Session – Auditorium Schweitzer: O. Motojima

19:00 Close

21:00 Medieval Music Concert @ St Pierre le Jeune Church *(Free & Open. Priority will be given to Conference Participants and Accompanying Persons showing their invitations before 20:40)*

Wednesday 29th June - Morning

Plenary Session - Auditorium Schweitzer - Chair: S. Atzeni

08:30 I3.005 Bulanov, S.V. Extreme field science

09:05 I3.006 Fujisawa, A. Experimental studies of mesoscale structure and its interactions with microscale waves in plasma turbulence

09:40-10:10 Coffee Break

Parallel Oral sessions
Auditorium Schweitzer – MCF- Chair: R. Pitts

10:10 I3.110 Wiesen, S. Integrated modelling of JET type-I ELMy H-mode pulses and predictions for ITER-Like Wall scenarios
10:40 I3.111 Feng, Y. Comparison between stellarator and tokamak divertor transport
11:10 03.107 Kurki-suonio, T. 3D ASCOT simulations of 13C transport in ASDEX Upgrade
11:25 03.108 Devaux, S. Surface layers effect on heat loads on the JET divertor plates
11:40 03.109 Soukhanovskii, V.A. The snowflake divertor: a game-changer for magnetic fusion devices?
11:55 03.110 Loarer, T. Isotopic plasma wall changeover experiments during long discharges in Tore Supra

Room Tivoli – BPIF- Chair: L. Gizzi

10:10 I3.209 Mangles, S. Bright keV light sources from laser-plasma accelerators
10:40 I3.210 Schreiber, J. Ion acceleration with highly intense short laser pulses
11:10 03.205 Fedele, R. Propagation of ultrastrong femtosecond laser pulses in the PLASMON-X
11:25 03.206 Sävert, A. Optical characterization of laser-driven electron acceleration
11:40 03.207 Perego, C. Target Normal Sheath Acceleration effective modeling study
11:55 03.208 Vieira, J. The role of the ion dynamics in the proton driven wakefield accelerator

Room Schumann – LTP- Chair: M. Capiteli

10:10 I3.309 Garrigues, L. Electric propulsion : comparisons of different concepts
10:40 I3.310 Guerra, V. Modeling heterogeneous atomic recombination and molecule conversion
11:10 I3.311 Rousseau, A. Plasmas & surface catalysis for environmental applications : fundamental aspects
11:40 I3.312 Sakakita, H. Experimental Studies of Plasma Medicine on Blood Coagulation and Prevention of Adhesion

Room Gutenberg – MCF- Chair: J. Ongena

10:10 03.111 Budny, R.V. Predictions of alpha heating in ITER L-mode and H-mode plasmas

10:25 03.112 Lang, P.T. High density H-mode operation by pellet injection and ELM mitigation with the new active in-vessel saddle coils in ASDEX Upgrade

10:40 03.113 Wright, J.C. Time Dependent evolution of RF-generated non-thermal particle distributions in fusion plasma

10:55 03.114 Laqua, H.P. Multi-Frequency Microwave Heating and Current Drive in over-dense Plasmas

11:10 03.115 Buratti, P. Onset of tearing modes in JET advanced scenarios

11:25 03.116 Imada, K. Collision frequency dependence of neoclassical tearing mode threshold

11:40 03.117 Reux, C. Non-linear MHD simulation of disruptions induced by massive gas injection on Tore Supra

11:55 03.118 Saint-Laurent, F. Control of runaway electron beam heat loads on Tore Supra

12:10-13:30 Lunch Break

Wednesday 29th June - Afternoon

13:30 - ~19:00 Excursions

- Tour 1 : City of Colmar and a winery

- Tour 2 : Riquewihr Village and a winery.

- Tour 3 : Haut-Koenigsbourg castle and a winery

Thursday 30th June - Morning

Plenary Session - Auditorium Schweitzer - Chair: N. Fisch

08:30 I4.007 Capitelli, M. Plasma kinetics in molecular gases & modelling of reentry plasmas

09:05 I4.008 Ahedo, E. Plasmas for space propulsion

09:40-10:10 Coffee Break

Parallel Oral sessions
Auditorium Schweitzer – MCF- Chair: T. Tala

10:10 I4.112 Mantica, P. Ion heat transport studies in JET
10:40 I4.113 McDermott, R.M. Momentum and particle transport in the ASDEX Upgrade tokamak
11:10 04.119 Muller, S.H. Intrinsic rotation generation in DIII-d ELM-free H-mode plasmas
11:25 04.120 Weisen, H. Probable identification of the Coriolis momentum pinch in JET
11:40 04.121 Pütterich, T. Poloidal Asymmetry of Toroidal Rotation Measured in ASDEX Upgrade
11:55 04.122 Staebler, G.M. Multi-species gyro-kinetic momentum transport modeling with the trapped gyro-Landau fluid model

Room Tivoli – BPIF- Chair: J. Limpouch

10:10 I4.211 Qiao, B. Stable ion radiation pressure acceleration with intense laser pulses
10:40 I4.212 Depierreux, S. Laser plasma interaction physics in the multi-kilojoule regime for compression and new ignition schemes in inertial confinement fusion
11:10 04.209 Kakolee, K.F. Cell irradiation experiment using laser driven protons at ultra high dose rate
11:25 04.210 Lemos, N. Forward directed ion emission in a LWFA with ionization Injection
11:40 04.211 Kar, S. Parametric scans of HB and LS-RPA regimes employing Petawatt laser
11:55 04.212 Veltcheva, M. Proton acceleration at kHz rate with a few cycle laser system

Room Schumann – LTP- Chair: J. Graves

10:10 I4.313 Awakovicz, P. Fundamental processes in plasma technologies
10:40 I4.314 Maguire, P. Properties of microplasmas and their applications in bio and nanotechnology
11:10 I4.315 Černák, M (Rahel, J.) Generation of high-density highly-nonequilibrium air plasma for large area flat surface processing
11:40 04.305 Zhirkov, I. Experimental study of ion charge state fluctuation in plasma generated by repetitively pulsed vacuum arc plasma source.
11:55 04.306 Tatarova, E.S. Microwave Air-Water Plasma Torch for Biomedical Applications

Room Gutenberg – BAP- Chair: L. Fletcher

10:10 I4.409 Longcope, D. Solar Magnetic Topology and Reconnection

10:40 I4.410 Browning, P.K. Flare particle acceleration and MHD instabilities

11:10 04.409 Biancalani, A. Nonlinear growth acceleration in gyrofluid simulations of collisionless reconnection.

11:25 04.410 Goldman, M.V. 3-D implicit-PIC simulations of nonlinear waves during magnetic reconnection

11:40 04.411 Bandyopadhyay, P. Observation of unstable spatiotemporal patterns in an rf produced magnetized plasma

11:55 04.412 Mendonca, J. Volkov solutions for relativistic quantum plasmas

12:10-13:30 Lunch Break

Thursday 30th June – Afternoon (Poster Session)

13:30-15:30 - Poster Session 3 – Galerie des Marbres

P4.001 M. Bitter, K. W. Hill, N. A. Pablant, L. F. Delgado-Aparicio, P. Beiersdorfer, J. Dunn, and M. Sanchez del Rio
X-ray line-shape diagnostics and novel stigmatic imaging schemes for the National Ignition Facility
P4.002 J. Z. Gleizer, S. Yatom, V. Vekselman, and Ya. E. Krasik
Space- and time-resolved characterization of nanosecond time scale discharge at pressurized pressure
P4.003 J. Jiang, C. Russo, R. Bendoyro, M. Fajardo, G. Figueira, N. C. Lopes
High-harmonic generation enhancement with quasi-phase matching techniques in ionic media
P4.004 S. Marjanović, A. Banković. S. Dujko, M. Šuvakov, G. Malović and Z. Lj. Petrović
Gas filled positron traps
P4.005 S. Saviz, Farzin M. Aghamir, M. Ghorannevis
Comparison of self-fields effects on electron trajectory and gain in two-stream electromagnetically pumped free electron laser with ion-channel guiding and axial guide magnetic field
P4.006 H. Shidara, Ch. Vermare, M. Sugimoto, P. Garin, IFMIF/EVEDA Project Team
Construction of the virtual accelerator for the IFMIF/EVEDA prototype accelerator commissioning
P4.007 Zhang Jianhua, Xu Rongkun, Xu Zeping, Ding Ning, Zhang Faqiang, Wang Zhen
Optimal design of nested wire array loads for Z-pinches on the Angara-5-1 facility
P4.008 F. Q. Zhang, F. B. Xue, R. K. Xu, Q. Y. Hu, G. X. Xia, J. L. Yang, Z. P. Xu, D. Y. Chen and J. C. Chen
Enhancement of hohlraum temperature by shortening foam length in dynamic hohlraum driven by wire array Z-pinches
P4.009 Abdrashitov A.V., Zolnikov K.P., Psakhie S.G.
Dust plasma clusters in confinement field with different anisotropy
P4.010 J. Angus, M. Umansky, and S. I. Krasheninnikov
3D modeling of blobs with the BOUT++ code
P4.011 Apfelbaum, E.M.
The reconstruction of effective pairwise potential in complex plasma on the base of pair correlation function
P4.012 H.K. Avetissian, A.G. Markossian
Nonlinear absorption of superintense laser radiation by monoenergetic electron beam due to bremsstrahlung on plasma ions
P4.013 G. Bazalitski, V. Ts. Gurovich, A. Fedotov-Gefen, S. Efimov and Ya. E. Krasik
Simulation of converging cylindrical GPa-range shock waves generated by wire array underwater electrical explosions
P4.014 A. Berbri and M. Tribeche
A note on the trapped electron dust grain current
P4.015 P. Coche and L. Garrigues
Study of stochastic effects in a Hall effect thruster using a two-dimensional fully Particle-In-Cell model
P4.016 Moncef, B., Fouzia, B.

Charge-transfer cross section in the K-K+ system

P4.017 R.W. Harvey, Yu. Petrov, E.F. Jaeger, W.W. Heidbrink, G. Taylor, C.K. Phillips; B.P. LeBlanc

First Order Finite-Orbit-Width Corrections in CQL3D Ion Fokker-Planck Modeling of the NSTX HHFW Experiment

P4.018 R. Hrach, P. Cerny, S. Novak, V. Hrachova

The sheath structure in the multicomponent plasma-solid interaction at low and medium pressures

P4.019 V. Hruby, R. Hrach, V. Hrachova

Computational simulation of Langmuir probe characteristics

P4.020 I. Litovko, A. Goncharov, A. Dobrovolskiy, S. Dunets

The negatively charged particles focusing by positive space charge lens

P4.021 B.P. Pandey, and, S. V. Vladimirov

Current driven instability in Earth's dusty mesospheric layer

P4.022 B.P. Pandey, and, S. V. Vladimirov

Thermal forces on dust in magnetised plasmas

P4.023 Y. Pianroj, T. Onjun, A. Fukuyama, R. Picha, and N. Poolyarat

Prediction of pedestal formation in DIII-D and JET tokamak plasmas using BALDUR and TASK codes

P4.024 D. Samaddar, W.A. Houlberg, L.A. Berry, W. Elwasif, G. Huysmans, S. Futatani, X. Garbet, D.E. Newman, R. Sanchez

Time parallelization of plasma simulations using the parareal algorithm

P4.025 G.E. Norman, A.V. Timofeev

Heating of dust particle motion in gas discharge plasma

P4.026 V.N.Tsytovich and G.E.Morfill

General features and solutions of master equation for equilibrium structures in complex plasmas

P4.027 O.S. Vaulina, E.V. Vasilieva

Structural phase transitions in strongly coupled systems

P4.028 M. Veranda, D. Bonfiglio, S. Cappello, L. Chacon, DF Escande

Magnetic topology and flow in helical Reversed Field Pinch (RFP) configuration from MHD simulations

P4.029 V. Yavorskij, Yu.Baranov, V. Goloborod'ko, V.Kiptily, A. Moskvitin, S. Sharapov, K. Schoepf and JET-EFDA contributors

Modelling of spatial and velocity distributions of diffusive fast ion loss in JET

P4.030 Smain Younsi and Mouloud Tribeche

Large amplitude dust-acoustic double-layers in a warm dusty plasma with suprathermal electrons two-temperature thermal ions and drifting dust grains

P4.031 S. Mayout and M. Tribeche

Effect of ion suprathermality on arbitrary amplitude dust acoustic waves in a charge varying dusty plasma

P4.032 Benzekka, M., Tribeche, M.

Nonlinear dust acoustic waves in a charge varying ion-ion-dust plasma

P4.033 Amour, R., Tribeche, M.

Solitary dust acoustic waves in a charge varying dusty plasma with nonextensive ions

P4.034 S. Boukhalfa, M. Tribeche and Taha Houssine Zerguini

Weakly nonlinear kink-type solitary waves in a fully relativistic plasma

P4.035 H. Zakeri, F. Aghamir

Kinetic theory approach of the dispersion relation of a cylindrical magnetized plasma waveguide

P4.036 Dong Zhiwei, Chen Yashen, Zhou Qianhong
The effect of the atmosphere on the propagation of high power microwave pulses operated in a multi-pulse mode
P4.037 Zolnikov K.P., Abdrashitov A.V., Psakhie S.G.
Simulation of dust plasma cluster behavior under electric pulsed loading
P4.038 F. Bencheriet, M. Djebli and W. M. Moslem
Nonlinear Electrostatic Waves of a Relativistic Rotating Magnetoplasma
P4.039 K. Annoua and R. Annoua.
Effects of two temperature electrons on dust acoustic waves
P4.040 Yu.M. Aliev and M. Krämer.
Propagation and conversion of non-axisymmetric guided modes in strongly non-uniform helicon plasma
P4.041 M.-J. Leea, K.-S. Chung
Dispersion relations of the dust acoustic and dust ion-acoustic surface waves in a Maxwellian complex plasma containing elongated and rotating dust grains
P4.042 M. Ouazene and R. Annou
Landau damping of Langmuir waves in non Maxwellian plasmas : effect of density
P4.043 S.K. Zhdanov and G.E. Morfill
Naturally excited waves in a dynamically active complex plasma
P4.044 S. Hatakeyama, M. Soya, H. Tsutsui, S. Tsuji-Iio, R. Shimada, T. Akiyama, K. Y. Watanabe
Helical coils for the positional stability and elongation of tokamak plasma
P4.045 P. Helander, C.D. Beidler, H. Maaßberg and N.B. Marushchenko
On the bootstrap current in stellarators
P4.046 P. Gaudio, I Lupelli, A Malizia, M T Porfiri, M Richetta
CFD ANSYS-CFX model for the prediction of the first instants in case of LOVA event and for the evaluation of different turbulence models on the flow field
P4.047 D. Kumar, D. Stutman, M. Finkenthal, D. Clayton, K. Tritz, R. Bell, B. LeBlanc
Modeling of space resolved impurity emission in the EUV range using a transmission grating based imaging spectrometer at NSTX
P4.048 B. Kurzan, P. A. Schneider, W. Suttrop, and ASDEX Upgrade team
Profiles and fluctuations of electron density and temperature observed with the upgraded Thomson scattering system in ASDEX Upgrade
P4.049 A. Lampson, R. G. L. Vann, R. Akers
A proton-detecting diagnostic for low-field tokamaks
P4.050 S. G. Lee, Y. J. Shi, U. W. Nam, M. K. Moon, M. Bitter, K. W. Hill, and the KSTAR Team
Observations of Toroidal Rotation from X-ray Imaging Crystal Spectrometer for KSTAR
P4.051 W. Lee, G. S. Yun, I. Hong, Y. B. Nam, M. Kim, H. K. Park, Y. G. Kim, M. G. Choi, K. W. Kim, B. Tobias, C. W. Domier, and N. C. Luhmann, Jr
Microwave imaging reflectometry for KSTAR
P4.052 J. Mlynar, B. Alper, C. Giroud, A. Murari, M. Odstrcil and JET EFDA Contributors
2D tomography of SXR data from toroidally separated cameras for studies of fast instabilities and impurity injection on JET
P4.053 M. Naiim Habib, Y. Marandet, L. Mercadier, Ph. Delaporte, C. Hernandez, N. Gierse, M. Zlobinski, P. Monier-Garbet, C. Grisolia, B. Schweer, A. Huber, V. Philipps

On the use of laser-induced breakdown spectroscopy to determine the fractional abundances of carbon ions in the laser plasma plume

P4.054 U. W. Nam, K.N. Kong, S. G. Lee, and M. K. Moon

Improvement of data acquisition system for an X-ray imaging crystal spectrometer at KSTAR

P4.055 N.A. Pablant, M. Bitter, L. Delgado-Aparicio, M. Goto, K.W. Hill, S. Lazerson, S. Morita, A.L. Roquemore, D. Gates, D. Monticello, H. Nielson, A. Reiman, M. Reinke, J.E. Rice, and H. Yamada

Layout and expected performance of the recently installed high-resolution x-ray imaging crystal spectrometer on the Large Helical Device

P4.056 E.Z. Gusakov and A.Yu. Popov

Theory of radial correlation Doppler reflectometry

P4.057 A. Romano, D. Pacella, S. Dabagov, F. Murtas, L. Gabellieri, D. Mazon, D. Hampai, L. A. Grosso, V. Piergotti, G. Rocchi, A. Sibio, B. Tilia

Polycapillary optics: a potential new approach for soft X-ray imaging and tomography in fusion device

P4.058 A. Ruzzon, A. Fassina, P. Franz, M. Gobbin, L. Marrelli

High resolution SXR emissivity and two foil Te characterization in RFX-mod helical states

P4.059 T. Lunt ,Y. Feng, D.Coster, P. de Marné, R.McDermott, H.W.Müller, W.Suttrop, M. Willensdorfer, E.Wolfrum and the ASDEX Upgrade team

EMC3-Eirene simulations of the first Magnetic Perturbation experiments at ASDEX Upgrade

P4.060 A. Lyssoivan, D. Douai, F. Durodié, M. Graham, E. Joffrin, R. Koch, V. Kyrytsya, E. Lerche, M. Maslov, V. Moiseenko, I. Pankratov, V. Plusnin, D. Van Eester, T. Wauters and JET EFDA Contributors

A study of RF power absorption mechanisms in JET ICWC plasmas

P4.061 C.F. Maggi, Y. Andrew, N.C. Hawkes, M. Beurskens, D.C. McDonald, G. Saibene, R. Sartori and JET EFDA Contributors

L-H threshold at low density and low momentum input in the JET tokamak

P4.062 R. Maingi, T.E. Evans, T.H. Osborne, D. Boyle, and the NSTX research team

Density Profile and Particle Transport Control as the Critical Ingredients for ELM Suppression in Tokamaks

P4.063 G. Manfredi, S. Hirstoaga, S. Devaux, E. Havlikova, D. Tskhakaya

Parallel transport in a tokamak scrape-off layer

P4.064 Ch. Maszl, M. Hoffmann, V. Naulin, J. J. Rasmussen, R. Schrittwieser and JET EFDA Contributors

Empirical Mode Decomposition and its application to Palm Tree Mode analysis

P4.065 A. A. Mavrin and D. Kh. Morozov

Study possibility of increasing the density limit by heating the impurities in the edge of tokamak

P4.066 P.V. Minashin, A.B. Kukushkin, A.S. Kukushkin

Estimations of SOL/divertor plasma heating by electron cyclotron radiation from core plasma in ITER

P4.067 T. Morisaki, S. Masuzaki, M. Kobayashi, R. Sakamoto, J. Miyazawa, G. Motojima, M Goto, Y. Suzuki, K. Tanaka, H. Yamada and LHD Experiment Group

Effect of resonant magnetic perturbations on super dense core plasma in LHD

P4.068 S. Munaretto, M.L. Apicella, P. Börner, P. Innocente, G. Mazzitelli, S. Wiesen

Edge simulation of FTU Tokamak with B2-Eirene

P4.069 Paredes A., Serre E., Schwander F.

Three-dimensional modelling of density and Mach number profiles in the SOL of a limiter plasma

P4.070 Jin-Woo Park, Joon-Wook Ahn, Deok-Kyu Kim, Hyunsun Han, Seung Bo Shim, Hae June Lee, Sang Hee Hong and Yong-Su Na
Simulation of tokamak SOL and divertor region and heat flux mitigation using gas puffing
P4.071 K. Polozhiy, V. Bobkov, J.-M. Noterdaeme, ASDEX Upgrade Team
Influence of the phase shift between two straps within an antenna and between antennas on W sputtering in ASDEX Upgrade
P4.072 A.B. Kukushkin, P.V. Minashin, A.R. Polevoi
Limit of electron cyclotron radiation in ITER long pulse operation
P4.073 R. Ruffe, S. Panayotis, G. Giacometti, P. Languille, Y. Marandet, C. Martin, C. Pardanaud, B. Pégourié, P. Roubin
Post-mortem analyses of the Tore Supra toroidal limiter as a tool for understanding transport at the vicinity of tokamak plasma facing components
P4.074 V. Rozhansky, E. Kaveeva, I. Veselova, S. Voskoboynikov, D. Coster
Impact of the parallel current in the scrape-off layer of a tokamak on the plasma parameters at the divertor plates
P4.075 S. Menmuir, L. Frassinetti, P.R. Brunsell, M.W.M. Khan, K.E.J. Olofsson, J.R. Drake
Response of plasma velocity profile and ion temperature on EXTRAP T2R to varying plasma conditions and applied fields
P4.076 L. Frassinetti, S. Menmuir, M. W. M. Khan, K. E. J. Olofsson, P. Brunsell, J. R. Drake
The effect of external control fields on tearing mode dynamics
P4.077 D. Meshcheriakov, P. Maget, H. Lütjens, P. Beyer
Non-linear modelling of curvature and diamagnetic effects on tearing modes
P4.078 Ahmed Akram Mirza, Jan Scheffel
Numerical study of thermal conductivity effects on stability of the reversed-field pinch.
P4.079 D. Moseev, M. Stejner, S. B. Korsholm, F. Meo, H. Bindslev, A. Bürger, V. Furtula, F. Leipold, A. Listopad, P. K. Michelsen, S. K. Nielsen, M. Salewski, E. Westerhof and the TEXTOR team
Ion cyclotron emission from NBI heated TEXTOR plasma
P4.080 M. Muraglia, O. Agullo, S. Benkadda, M. Yagi, X. Garbet, A. Sen
Drift interchange turbulence driven magnetic islands
P4.081 M. Nagata, T. Higashi, K. Ito, K. Matsumoto, T. Hanao, M. Ishihara, Y. Kikuchi, N. Fukumoto
Measurements of dynamo effects in the HIST helicity-driven spherical torus plasmas
P4.082 Y. Narushima, F. Castejón, S. Sakakibara, K. Y. Watanabe, M. Yoshinuma, H. Funaba, S. Ohdachi, Y. Suzuki, S. Nishimura, T. Estrada, F. Medina, D. Lopez-Bruna, M. Yokoyama, K. Ida, LHD Experiment Group and TJ-II Experiment Group
Experimental observation of hysteresis of magnetic island dynamics during change of poloidal flow in a helical plasma
P4.083 M.F. F. Nave, T. Johnson, L.-G. Eriksson, C. Giroud, V. Kiptily, M.-L. Mayoral, J-M Noterdaeme, J. Ongena, G. Sabeine, F. Rimini, R. Sartori, S. Sharapov, T. Tala ,P. de Vries, K-D Zastrow , JET-EFDA Contributors
MHD effects on JET Intrinsic Rotation
P4.084 S. Nishimura, S. Toda, M. Yagi, K. Itoh, Y. Narushima
Impacts of resonant magnetic perturbations on stellarator plasmas
P4.085 S. Nowak, S.Cirant, L. Boncagni, F. Crisanti, G.Granucci, E. Vitale, E. Alessi
Fast equilibrium reconstruction (FASTEQ) for the control in real time of MHD instabilities in FTU tokamak

P4.086 Nuehrenberg, C.
Study of periodicity-breaking error-fields in the W7-X stellarator
P4.087 M. Okabayashi, J.S. deGrassie, W.W. Heidbrink, Y. In, Y.Q. Liu, H. Reimerdes, W.M. Solomon, E.J. Strait, G.L. Jackson, J.M. Hanson, R.J. La Haye, M.J. Lanctot
Transient excitation of RWM in DIII-D by energetic particle losses and plasma rotation decrease due to off-axis fishbone modes
P4.088 Shoichi Okamura and Yasuhiro Suzuki
Effects of triangularities in LHD-type planar-axis stellarators
P4.089 M. Onofri, F. Malara, P. Veltri
Compressible magnetohydrodynamics simulations of the reversed-field pinch with anisotropic thermal conductivity.
P4.090 Yu.V. Petrov, V.K. Gusev, A.E. Ivanov, G.S. Kurskiev, V.B. Minaev, M.I. Patrov, N.V. Sakharov, S.Yu. Tolstyakov.
Beam Ion Driven Instabilities on the Spherical Tokamak Globus-M
P4.091 V.V. Plyusnin and I.M. Pankratov
Influence of three-dimensional plasma dynamics on runaway electron generation at major disruptions in tokamaks
P4.092 Y. Podoba, C. Angioni, V. Bobkov, R.M. McDermott, J. M. Noterdaeme, ASDEX Upgrade Team
Intrinsic rotation of ICRF heated H-mode plasmas in ASDEX Upgrade
P4.093 G. Pokol, G. Papp, G. Por, A. Magyarkuti, N. Lazanyi, L. Horvath, V. Igochine, M. Maraschek and ASDEX Upgrade Team
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P4.094 V.K. Gusev, V.V. Dyachenko, M.A. Irzak, V.V. Minaev, Yu.V. Petrov, V.V. Rozhansky, N.V. Sakharov, A.N. Saveliev, I.Yu. Senichenkov, O.N. Shcherbinin, E.G. Zhilin
Globus-M modernization and plasma parameter promotion in the basic plasma heating and CD scenarios
P4.095 Q. Mukhtar, T. Hellsten and T. Johnson
On monte carlo operators describing coulomb collisions in toroidal plasmas.
P4.096 A. Murakami, J. Miyazawa, C. Suzuki, I. Yamada, T. Morisaki, R. Sakamoto, H. Yamada, and LHD Experiment Group
Fueling characteristics of supersonic gas puffing applied to large high-temperature plasma in LHD
P4.097 B. Chatthong, Y. Sarazin, T. Onjun, F. Imbeaux, A. Strugarek, R. Picha, and N. Poolyarat
Analytical and Numerical Modelling of Transport Barrier Formation and Dynamic Using Bifurcation Concept
P4.098 V.V.Dyachenko, F.V.Chernyshev, V.K.Gusev, S.A.Khitrov, M.M.Larionov, Yu.V.Petrov, N.V.Sakharov, O.N.Shcherbinin, A.E.Shevelev, A.Yu.Stepanov, V.I.Varfolomeev, S.E.Bender, A.A.Kavin, S.E.Lobanov
Plasma start-up and current generation by RF waves in spherical tokamak Globus-M
P4.099 V. Petrzilka, G. Corrigan, V. Fuchs, A. Ekedahl, M. Goniche, P. Jacquet, J. Mailloux, M.-L. Mayoral, J. Ongena, V. Parail and JET EFDA contributors
Modelling of the density modifications in front of the LH launcher
P4.100 V. Petrzilka, J.P. Gunn, A. Ekedahl, L. Delpech, V. Fuchs, M. Goniche, M. Kubic, J.–Y. Pascal
Comparison of fast electron fluxes generated in front of Passive-Active and Fully-Active Multijunction LH antennas in Tore Supra

P4.101 E.Z. Gusakov and A.Yu. Popov
Absolute parametric decay instability in ECRH experiments at tokamaks
P4.102 J.K. Anderson, F. Auriemma, S.Dal Bello, A. Ferro, L. Grando, Y. Hirano, S. Kiyama, H. Koguchi, D. Liu, N. Pilan, A. Rizzolo, H. Sakakita, C. Taliercio and M. Valisa
Simulation of a Power Neutral Beam Injection in RFX-Mod
P4.103 A.N. Saveliev, M.A. Irzak, O.N. Shcherbinin
Lower hybrid current drive modelling for spherical tokamak Globus-M
P4.105 S. Miyamoto, M. Sugihara, Y. Nakamura, S. Toshimitsu, T. Sugie, Y. Kusama and R. Yoshino
Theoretical approach to the maximum vertical force on ITER vacuum vessel
P4.106 I Nunes, G Saibene, P J Lomas, A C C Sips, J Lonnroth, I Voitsekovitch and the JET EFDA contributors
ITER similarity current ramp-down experiments at JET
P4.107 G. Papp, M. Drevlak, T. Fülöp, P. Helander and G.I. Pokol
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P4.108 G. Pautasso, K. Mank, A. Mlynek, M. Beck, W. Weisbart, M. Bernert, T.Eich, T. Lunt, O. Gruber, A. Herrmann and the ASDEX Upgrade Team
MGI from the high field side of ASDEX Upgrade
P4.109 A.R. Polevoi, R. Bilato, T. Casper, A. Ivanov, A.S. Kukushkin, A. Loarte, T. Oikawa, O. Sauter, J. A. Snipes, D.J. Campbell, V.A. Chuyanov
Operational limits of ITER helium-4 plasmas with ELM pace-making
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P4.111 D. Kalupin, D. Coster, G. Pereverzev, R.Stankiewicz, I. Ivanova-Stanik, V. Basiuk, Ph. Huynh, J. Signoret, J. Ferreira, A. Figueiredo, L. L. Alves, J. P. S. Bizarro, I. Voitsekhovitch and ITM-TF contributors.
Verification and Validation of the European Transport Solver
P4.112 A. Kammel, K. Hallatschek
Analysis of asymmetric zonal flow states observed in self-consistent 3-D drift wave turbulence simulations
P4.113 N. Kasuya, M. Yagi, K. Itoh and S.-I. Itoh
Three-dimensional turbulence analyses using Turbulence Diagnostic Simulator
P4.114 Kawamori, E.
Experimental identification of electron scale drift mode in linear device
P4.115 Kikuchi, M.
On offset toroidal rotation in NTV
P4.116 Kitajima, S.
Effects of magnetic islands on poloidal flow in TU-Heliac
P4.117 T. Kiviniemi, J.Heikkinen, S. Janhunen, S. Leerink and T. Korpilo
Gyrokinetic simulation of edge pedestal in a middle-sized tokamak
P4.118 Ya.I. Kolesnichenko, S.S. Medley, R.B. White, Yu.V. Yakovenko
Formation of a non-monotonic energy distribution of energetic ions in NSTX
P4.119 T. Korpilo, J.A. Heikkinen, S. Janhunen, T. Kiviniemi and S. Leerink
Gyrokinetic particle simulation of a tokamak Ohmic transport equilibrium
P4.120 A. Kus, A. Dinklage, E. Ascasibar, C.D. Beidler, A.A. Beletskii, B. D. Blackwell, T. Estrada, H. Funaba, J. Geiger, J.H. Harris, C. Hidalgo, M. Hirsch, D. Lopez-Bruna, A. Lopez-Fraguas, H. Maaßberg, T. Minami, T. Mizuuchi, S. Murakami, N. Nakajima, S. Okamura, D. Pretty, M. Ramisch,

S. Sakakibara, F. Sano, U. Stroth, Y. Suzuki, Y. Takeiri, J. Talmadge, K. Thomsen, Yu. A. Turkin, K.Y. Watanabe, A. Weller, R. Wolf, H. Yamada, M. Yokoyama
Identification of variables causing clustering in the global energy confinement data by use of discriminant analysis

P4.121 S. Leerink, V. Bulanin, A.D. Gurchenko, E.Z. Gusakov, J.A. Heikkinen, S.J. Janhunen, T.P. Kiviniemi, T. Korpilo, S.I. Laskhul and A.V. Petrov.
Full f gyrokinetic code validation of transport and turbulence in a ohmic FT-2 tokamak discharge

P4.122 H.W. Müller, A. Kirk, M. Kocan, V. Rohde, R. Schrittwieser, W. Suttrop, J. Vicente, and ASDEX Upgrade Team
Effect of non-axisymmetric magnetic perturbations on the turbulence at open field lines in ASDEX Upgrade

P4.123 C. J. McDevitt, Ö. D. Gürcan, P. H. Diamond, and T. S. Hahm
A weak turbulence theory of drift wave microturbulence

P4.124 F. Mehlmann, R. Schrittwieser, V. Naulin, J.J. Rasmussen, H.W. Müller, C. Ionita, A.H. Nielsen, N. Vianello, V. Rohde, ASDEX Upgrade Team
Radial transport of poloidal momentum in ASDEX Upgrade

P4.125 F. Militello, W. Fundamenski
Multi-machine comparison of drift fluid dimensionless parameters

P4.126 A. Mlynek, F. Ryter, C. Angioni, R. Fischer, G. Pereverzev, J. Stober, W. Suttrop and the ASDEX Upgrade Team
Transient behavior of density and temperature in experiments with modulated central electron heating on ASDEX Upgrade

P4.127 A. Monnier, G. Fuhr, P. Beyer, S. Benkadda, X. Garbet
Penetration of resonant magnetic perturbation at the tokamak edge

P4.128 S. Moradi, B. Weyssow and J. Anderson
A theory of non-local linear drift wave transport

P4.129 P. Morel, A. Bañón Navarro, M. Albrecht-Marc, D. Carati, F. Merz, T. Görler & F. Jenko
Large-Eddy simulation for gyrokinetics

P4.130 K. Nagaoka, K.Ida, M. Yoshinuma, M. Osakabe, H. Takahashi, M. Yokoyama, Y. Takeiri, S. Morita, K. Tanaka, N. Tamura, T. Tokuzawa, T. Ido, A. Shimizu, S. Murakami, M. Goto, H. Nakano, K. Ikeda, K. Tsumori, M. Kisaki, T. Mutoh, O. Kaneko, H. Yamada
Characteristics of viscosity and intrinsic rotation in ion internal transport barrier plasmas on the Large Helical Device

P4.131 N. Tronko, A. J. Brizard
Momentum conservation law for the gyrokinetic Vlasov-Poisson equations

P4.132 S. V. Neudatchin and D. A. Shelukhin
Comparison of Plasma Response to ECRH at First and Second Harmonics at T-10 Tokamak

P4.133 B. Nold, H. W. Müller, M. Ramisch, U. Stroth and the ASDEX Upgrade Team
Measurements of edge turbulence in ASDEX Upgrade L- and H-mode discharges

P4.134 S. Ohshima, M. Takeuchi, S. Yamamoto, S. Kobayashi, K. Nagasaki, T. Mizuuchi, H. Okada, T. Minami, K. Hanatani, S. Konoshima, H. Matsuura and F. Sano
Edge turbulence study in neutral bema heated plasma of Heliotron J

P4.135 P. Klaywittaphat, B. Pégourié, T. Onjun, F. Imbeaux, J.-F. Artaud, A. Géraud, R. Picha, and N. Poolyarat
Effect of magnetic field on pellet penetration and deposition in Tore Supra

P4.136 V.P. Pastukhov, N.V. Chudin, D.V. Smirnov
Evolution of density and temperature profiles in turbulent tokamak core plasmas after ECH switching-on
P4.137 Pavlenko, V.
On the stability of electron drift turbulence with respect to excitation of large-scale magnetic fields
P4.138 M. A. Pedrosa, C. Hidalgo, C. Silva1, B. Carreras, D. Carralero, D. López-Bruna, J. Romero, A. López-Fraguas, M. A. Ochando, J. A. Alonso and the TJ-II team
Temporal and radial dynamics of long-range correlated structures in the TJ-II stellarator

Post-deadline posters

PD4.01 Bolun, C.
X-ray backlighting techniques based on spherically curved crystals for inertial confinement fusion experiments
PD4.02 Cerchez, M.
100 TW laser pulse interaction with targets of randomly and periodical modulated surface
PD4.03 Gu, Y.
Experiments on Indirective Driven Implosions of Fast Ignition Cone-shell Targets at LFRC
PD4.04 Yang, J.
Experimental progress on radiation-related studies in RCLF
PD4.05 Kalal, M.
Overview and latest proposals in SBS PCM based IFE technology featuring self-navigation of lasers on injected direct drive pellets
PD4.06 Wang, Z.
The application of Thomson scattering measurements in laser-produced plasmas of void gold hohlraum
PD4.07 Shang, W.
Study of x-ray radiant characteristics and thermal radiation redistribution in CH foam filling cylindrical cavities
PD4.08 Yang, Z.
Time-Resolved Measurement of Radiatively Heated Iron 2p-3d Transmission Spectra
PD4.09 Zhou, W.
Enhancement of monoenergetic proton beams via cone substrate in high intensity laser pulse-double layer target interactions
PD4.10 Dong, J.
Direct Drive Hydrodynamic Instability Experiments on Shen-Guang Ⅱ Laser

Thursday 30th June – Afternoon (Oral Sessions)

Auditorium Schweitzer – MCF- Chair: G. Falchetto

16:00 I4.114 Hubbard, A.E. Separation of energy and particle transport barriers in the I-Mode regime
16:30 I4.115 López-Bruna, D. Magnetic resonances and electric fields in the TJ-II Heliac
17:00 04.123 Qiu, Z. Theory of geodesic acoustic mode excitation by a broad energetic particle beam
17:15 04.124 Conway, G.D. Zonal flows GAMs and turbulence behaviour across the L-H transition in ASDEX Upgrade
17:30 04.125 Xu, Y. Overview of recent results on long-range correlations and zonal flows in the edge of TEXTOR tokamak
17:45 04.126 Vermare, L. Effect of collisionality on micro-turbulence characteristics

Room Tivoli – BPIF- Chair: M. Zepf

16:00 I4.213 Temporal, M. Irradiation uniformity of directly driven ICF target in the context of the shock ignition scheme.
16:30 I4.214 Wei, M. Investigation of dependence of laser energy coupling on target material and preplasma scalelength for reentrant cone guided fast ignition laser fusion
17:00 04.213 Gremillet, L. Exact treatment of collisional effects on the electrostatic relativistic beam-plasma instabilityy
17:15 04.214 Prasad, R. Laser driven ion acceleration in ultra-short high contrast ultra-intense regime with thin solid targets
17:30 04.215 Tikhonchuk, V.T. Physics of laser plasma interaction in the context of shock ingnition.
17:45 04.216 Mima, K. Wave breaking on solid surface irradiated with intense short pulse laser and their effects on hot electron characteristics

Room Schumann – LTP- Chair: Z. Petrovic

16:00 I4.316 Maric, D.G. Plasma breakdown: Experiments and simulation
16:30 I4.317 Luque, A. Modelling of transient discharges in the Earth's upper atmosphere
17:00 04.307 Allen, J.E. Plasma-sheath resonance in a plasma reactor: a model with finite geometry
17:15 04.308 Trent, K.R. EEDF Control Through Gas Injection into a Plasma Plume
17:30 04.309 Saitov, I. Abnormal pressure fluctuations and thermodynamic instabilities in nonideal plasma.
17:45 04.310 Bret, A. On the proton to electron mass ratio in particle-in-cell simulations

Room Gutenberg – BAP- Chair: F. Moreno-Insertis

16:00 I4.411 Maksimovic, M. Electrons beams from radio emission in the interplanetary medium
16:30 I4.412 Chaston, Ch. Instabilities and the evolution of auroral forms
17:00 04.413 Sauer, K. Fundamental aspects of whistler wave generation in space plasmas
17:15 04.414 Friedland, L. Water bag model for a nonuniform beat-wave driven plasma

17:30 04.415 Markidis, S. Kinetic simulations of kink instability in an infinite flux rope.
17:45 04.416 Vlad, M. Nonlinear evolution of drift turbulence: inverse cascade zonal flows intermittency

18:00 Free Time

19:00 Concert @ St Thomas Church & Conference Dinner @ Maison Kammerzell *(Tickets will be checked)*

Friday 1st July - Morning

Plenary Session - Auditorium Schweitzer - Chair: T. Gans

08:30 I5.009 Graves, D. Synergistic effects in plasma surface interactions

09:05 I5.010 Kroesen, G. Applications of non-equilibrium plasmas: light sources & plasma medicine

09:40-10:10 Coffee Break

Parallel Oral sessions
Auditorium Schweitzer – MCF- Chair: W. Suttrop

10:10 I5.116 Giruzzi, G. Conception and modelling of ITER scenarios: physics and computational challenges
10:40 I5.117 Stober, J. ECRH operation with O2 and X3 heating schemes in ASDEX Upgrade - Applications machine protection and extrapolation to fusion reactors.
11:10 05.127 Sips, A.C.C. Scientific preparation for future DT campaigns at JET in support of ITER
11:25 05.128 Bolzonella, T. JT-60SA scientific programme toward ITER and DEMO
11:40 05.129 Hobirk, J. Comparison of different improved H-mode scenarios on AUG and JET
11:55 05.130 Keeling, D.L. Test of current diffusion modelling in MAST current ramp-up

Room Tivoli – BPIF- Chair: N. Tahir

10:10 I5.415 Shiraga, H. Fast ignition integrated experiments with Gekko and LFEX lasers
10:40 05.217 Trines, R. Production of picosecond kilojoule petawatt laser pulses via Raman amplification of nanosecond pulses
10:55 05.218 Danson, C.N. Overview of Project Orion
11:10 05.219 Marocchino, A. Ablative Richtmyer-Meshkov and Rayleigh-Taylor instabilities in direct-drive laser fusion and growth reduction by adiabat shaping
11:25 05.220 Di Lucchio, L. Dynamic stabilization of rayleigh-taylor instability in an ablation front
11:40 05.221 Ruiz de Lira, C.H. Turbulence generated by a planar shock wave that travels through a non uniform flow
11:55 05.222 Festa, F. K-edge shift and X-ray Absorption Near Edge Spectroscopy (XANES) investigation of laser driven shock-compressed aluminium

Room Schumann – LTP- Chair: G.M.W. Kroesen

10:10 I5.318 Stefanović, I. Diagnostics of plasma kinetics in dusty plasmas
10:40 05.311 Khrapak, S.A. Freezing and melting of large 3D complex plasma structures under microgravity conditions

10:55 05.312 Vladimirov, S.V. Dust trajectory inside a magnetized sheath
11:10 05.313 Tsytovich, V.N. Shell-void structures in complex plasmas
11:25 05.314 Lapenta, G. Energy Conservation in the Simulation of Gravitational Collapse in Dusty Plasmas
11:40 05.315 Pustylnik, M.Y High-voltage nanosecond pulse discharge in a low-pressure preionized medium
11:55 05.316 Khrustalyov, Y.V. Thermal Conductivity and Capacity for 2D and 3D Non-ideal Systems

Room Gutenberg – BAP/MCF- Chair: P. Martin

10:10 I5.413 Cooper, W. Helical core tokamak MHD equilibrium states
10:40 I5.414 Hudson, S.R. Partially-relaxed partially constrained MHD equilibria
11:10 05.417 Lazerson, S.A. Equilibrium Reconstruction on the Large Helical Device
11:25 05.418 Gustafson, K. Fast ion transport in TORPEX: comparison between theory and experiment
11:40 05.419 Vincena, S. Using Alfven waves for remote diagnostics of impulsive fast ion production
11:55 05.420 Felici, F. Optimization real-time simulation and feedback control of tokamak plasma profiles on TCV

12:10-13:30 Lunch Break

Friday 1st July – Afternoon (Poster Session)

13:30-15:30 - Poster Session 4 – Galerie des Marbres

P5.001 R.A. Bendoyro, C. Russo, J. Jiang, J. Vieira, R. Fonseca, L.O. Silva, and N.C. Lopes.
Improving the self-injection of electrons in a LWFA
P5.002 H.Ahmed, L. Romagnani , D. Doria, E.Ianni, R. Prasad, M.Cerchez, A.L.Lindemann, G.Sarri, K.Quinn,O.Willi, I. Kourakis, M. Borghesi
Observation and characterization of laser driven shock waves in tenuous plasma
P5.003 Andreev, N.E.
Electron acceleration using guided propagation of short intense laser pulses
P5.004 H.K. Avetissian, S.S. Israelyan, Kh.V. Sedrakian
Acceleration of proton and ion beams by ultrarelativistic laser and superstrong pulsed magnetic fields in plasma
P5.005 E. d'Humières, S. Bochkarev and V. Tikhonchuk
Laser oriented electrostatic shocks in low density plasmas to produce energetic collimated ion beams and study low velocity astrophysical shocks
P5.006 Renato Fedele, Fatema Tanjia, P. K. Shukla, and Sergio De Nicola
Self consistent Thermal Wave Model description of the transverse dynamics for relativistic charged particle beams in a magnetoactive plasma
P5.007 Hugo Ferrari, Agustin Lifschitz and Brigitte Cros
X-ray as a diagnostic in laser plasma electron acceleration in cm-long capillary tubes
P5.008 R.A. Fonseca, P. Abreu, V. Decyk
Evaluation of GPGPU algorithms for electromagnetic particle-in-cell (EM-PIC) modeling of plasma based accelerators
P5.009 Habibi, M.
The Role of Plasma Density Profiles on Relativistic Self- Focusing and their Effects on Beam Matching
P5.010 N.Lemos, J. Berardo, N. Lopes, G. Figueira, F. Fiuza, D. A. Jaroszynski, L.O.Silva, and J. M. Dias
Efficient Plasma heating by ultra-short laser pulses
P5.011 Levato, T., Labate, L., Pathak, N.C., Gizzi, L.A., Valente, P., Martellotti, S., Giulietti, D., Faccini, R., Drenska, N., Cecchetti, C.A., Piastra, F.,
Pointing stability and beam quality in GeV-scale laser-plasma acceleration
P5.012 T. Levato, M.Calvetti, N.C.Pathak, V. Lollo, F.Piastra, D.Giulietti, L.Labate, L.A.Gizzi
First preliminary results from the new Frascati Laser for Acceleration and Multidisciplinary Experiments (FLAME) at National Laboratory of Frascati (LNF).
P5.013 J.L. Martins, J. Vieira, S.F. Martins, R.A. Fonseca, L.O. Silva
Betatron X-ray sources based on laser-wakefield acceleration with multi-PW lasers
P5.014 A. Giulietti, N. C. Pathak, C. Cecchetti, D. Giulietti, T. Hosokai, P. Koester, H. Kotaki, L. Labate, T. Levato and L. A. Gizzi
Space- and time-resolved observation of strong laser frequency up-shifting during ultrafast plasma formation
P5.015 J. Psikal, O. Klimo, J. Limpouch

Simulation studies on laser ion acceleration in micro-structured targets and larger multispecies clusters

P5.016 J. Badziak, T. Pisarczyk, T. Chodukowski, S. Borodziuk, S. Jabłoński, Z. Kalinowska, A. Kasperczuk, P. Parys, P. Rączka, M. Rosiński, J. Wołowski, E. Krousky, M. Pfeifer, J. Skala, J. Ullschmied,R. Liska, M. Kucharik, K. Tomaszewski, P. Pisarczyk, Yong-Joo Rhee

Laser-induced cavity pressure acceleration – a novel highly efficient scheme of acceleration of dense matter

P5.017 C. Russo, R. A. Bendoyro, J. Jiang, L. Cardoso, G. Figueira, N. C. Lopes

Towards long plasma channels for laser wakefield plasma accelerators

P5.018 A. Sävert, S. P. D. Mangles, M. Schnell, M. Nicolai, O. Jäckel, M. Reuter, A. K. Arunachalam, and M. C. Kaluza

Influence of the target gas in a laser wake field accelerator

P5.019 M. Shoucri, X. Lavocat-Dubuis, J-P. Matte,F. Vidal

Numerical study of the interaction of a circularly polarized laser beam normally incident on an overdense plasma: a comparaison between a Vlasov code and a PIC code

P5.020 Shoucri, M.

Vlasov simulation of wake-field acceleration using a relativistic electron beam

P5.021 Renato Fedele, Fatema Tanjia, Sergio De Nicola, Padma K. Shukla and Dusan Jovanovic

A numerical investigation of the nonlinear and collective dynamics of the plasma wakefield generation governed by the quantum-like Zakharov system in magnetized plasmas

P5.022 M. Vranic, R. A. Fonseca, L. O. Silva

Radiation reaction effects in ion acceleration

P5.023 A. Zani, T. Ceccotti, D. Dellasega, A. Macchi, A. Sgattoni and M. Passoni

Steps to optimization of maximum proton energy in target normal sheath acceleration

P5.024 Hongbo Cai, Shaoping Zhu, X. T. He, and K. Mima

Magnetic field generation and electron collimation analysis for propagating fast electron beams in sandwich structure targets

P5.025 Lihua Cao, Yuqiu Gu , Zongqing Zhao, Leifeng Cao

Efficient energy coupling and enhanced electron yield by a nanolayered target irradiated by a short laser pulse

P5.026 P.K. Chauhan,J.R. Davies,L.O. Silva

PIC modeling of double pulse effect on fast electron collimation

P5.027 Bengt Eliasson and P. K. Shukla.

Relativistic Laser-Plasma Interactions at Quantum Scales

P5.028 K. A. Flippo, S. A. Gaillard, D. T. Offermann, T. Burris-Mog, J. Rassuchine, T. Kluge, J. Ren, R. P. Johnson, T. Shimada, M. Bussmann, T. Cowan, B. Gall, M. Geissel, G. Petrov, Tz. Petrova, C. Plechaty, M. J. Schmitt, M. Schollmeier, and X. Yang

Trident 200 TW “Dial-A-Contrast” laser system experiments

P5.029 S. A. Gaillard, T. Burris-Mog, M. Bussmann, T. E. Cowan, K. A. Flippo, B. Gall, R. P. Johnson, T. Kluge, S. Kraft, J. Metzkes, D. T. Offermann, G. Petrov, Tz. Petrova, C. Plechaty, J. Rassuchine, J. Ren, M. Schmitt, M. Schollmeier, T. Shimada, X. Yang, and K. Zeil

Proton energy increase and X-ray yields from micro-cone targets

P5.030 C. Goyon, S. Depierreux, G. Loisel, D.T. Michel, V. Yahia, C. Labaune, E. Alozy, N.G. Borisenko, M. Casanova, A. Casner, S. Hüller, J. Limpouch, P. Loiseau, P.E. Masson-Laborde, C. Meyer, P. Nicolaï, D. Pesme, G. Riazuelo, J. Robiche, V.T. Tikhonchuk
Experimental results on stimulated Brillouin and Raman scattering from long and hot plasmas
P5.031 T. Johzaki, A. Sunahara, H. Nagatomo, H. Sakagami, K. Mima
Electron Beam Control by External Magnetic Fields in Fast Ignition
P5.032 P. Koester, N. Booth, C.A. Cecchetti, H. Chen, R.G. Evans, G. Gregori, L. Labate, T. Levato, B. Li , M. Makita, J. Mithen, Ch. Murphy, M. Notley, R. Pattathil , D. Riley, N. Woolsey , L.A. Gizzi
Investigation of fast electron energy coupling in a counter-propagating scheme
P5.033 B. S. Paradkar, S. I. Krasheninnikov, and F. N. Beg
On the mechanism of electron acceleration in “pre-plasma”
P5.034 L. Labate, C.A. Cecchetti, O. Ciricosta, P. Koester , T. Levato, L.A. Gizzi
A novel single-shot spectrally resolved X-ray imaging technique of ICF relevant plasmas
P5.035 Li, B.
Stimulated Raman cascade scattering electromagnetic soliton and high-quality well-collimated electron beam in intense laser interaction with underdense homogeneous plasma
P5.036 Li, L.
Electromagnetic radiation at the electron plasma wave frequency in intense laser pulse interaction with low-density homogeneous plasmas
P5.037 Heinrich Hora, Paraskevas Lalousis, George H. Miley and Stavros D. Moustaizis
Fusion flame in uncompressed fuel by nonlinear force driven Petawatt-picosecond laser pulses
P5.038 J. Badziak, S. Jabłoński, P. Rączka
Efficient generation of high-energy quasi-monoenergetic ion beams using laser-induced cavity pressure acceleration
P5.039 A.P.L.Robinson, M.H.Key, M.Tabak
The Magnetic Switchyard: Fast Electron Focussing for Fast Ignition ICF and its Development to Ignition Scale
P5.040 M. Roth, O. Deppert, V. Bagnoud, S. Busold, M. Geissel, G. Hoffmeister, G. Schaumann, M. Schollmeier, D. Schumacher
Recent advances in Proton acceleration and beam shaping
P5.041 S. Ter- Avetisyan, R. Prasad, D. Doria, K.E. Quinn, L. Romagnani, P. Gallegos, P.S. Foster, C.M. Brenner, J.S. Green, M.J.V. Streeter, D.C. Carroll, O. Tresca, N. Dover, C.A.J. Palmer, J. Schreiber, D. Neely, Z. Najmudin, P. McKenna, M. Zepf, M. Borghesi
Laser-based ion acceleration: a short review of experimental evidences and perspectives for application
P5.043 M.I. Mikhailov1, C. Nührenberg2, J. Nührenberg2, V.D. Shafranov1
Qualitative geometry of qa qh and qi configuratuins
P5.044 V.V. Postupaev, A.V. Arzhannikov, A.V. Burdakov, I.A. Ivanov, M.V. Ivantsivsky, K.N. Kuklin, S.A. Kuznetsov, M.A. Makarov, K.I. Mekler, S.V. Polosatkin, S.S. Popov, A.F. Rovenskikh, S.L. initsky, V.F.Sklyarov, N.V. Sorokina, A.V. Sudnikov, and L.N. Vyacheslavov
Advances in plasma heating and confinement in multiple-mirror trap GOL-3
P5.045 S. Sangaroon, M. Cecconello, E. Ronchi, M. Turnyanskiy, G. Ericsson
Characterization of MAST neutron camera detectors and first measurements
P5.046 S. Schmuck, J. Svensson, E. de la Luna, L. Figini, T. Johnson, B. Alper, M. Beurskens, J. Fessey, T. Gerbaud, A. Sirinelli and JET EFDA Contributors.

Bayesian derivation of electron temperature profile using JET ECE diagnostics

P5.047 Seon, C., Choi S.H., Cheon M.S., Pak, S., Lee, H., Biel, W., Barnsley, R.

Tests and cross calibration of two-channel prototype ITER vacuum ultraviolet spectrometer with a thin foil filter and baffles

P5.048 V.Yu. Sergeev, I.A. Sharov, I.V. Miroshnikov, O.A. Bakhareva, P.R. Goncharov, N. Tamura, T. Ozaki, S. Sudo, B.V. Kuteev

Improvement of physical basis of PCX diagnostics using NIOS data in LHD

P5.049 D. Stutman, K. Tritz, D. Clayton, D. Kumar, M. Finkenthal, R. Bell, B. LeBlanc

Multi-energy SXR imaging diagnostics for fusion experiments

P5.050 G. Tardini, A. Zimbal, B. Esposito, F. Gagnon-Moisan, L. Giacomelli, D. Marocco, R. Neu, H. Schumacher, K. Tittelmeier and the ASDEX Upgrade Team

First neutron spectroscopy measurements of ASDEX Upgrade plasmas

P5.051 B.J. Tobias, J.E. Boom, S. Che, I.G.J. Classen, C.W. Domier, A.J.H. Donne, X. Kong, G.J. Kramer, N.C. Luhmann, Jr, R. Nazikian, H.K. Park, G.S. Yun, and M.A. Van Zeeland

Diagnosis of local harmonic poloidal structure in core and edge MHD from electron cyclotron emission imaging

P5.052 S.Yu. Tolstyakov, G.S.Kurskiev, V.K.Gusev, A.A.Berezutsky, M.M.Kochergin, N.A.Khromov, V.B.Minaev, E.E.Mukhin, M.I.Patrov, Yu.V.Petrov, N.V. Sakharov, V.V.Semenov, I.Yu. Senichenkov, A.D.Iblyaminova

Study of electron component dynamics during neutral beam injection

P5.053 G. Verdoolaege, G. Van Oost

Advanced learning in massive fusion databases: nonlinear regression clustering dimensionality reduction and information retrieval

P5.054 A. Weller, B. Huber, J. Belapure, M. Sertoli, A. Gude, R. Neu, R. Dux, T. Pütterich, W. Suttrop, and the ASDEX Upgrade Team

X-ray pulse height analysis on ASDEX Upgrade

P5.055 E. Yatsuka, T. Hatae, K. Ebisawa, M. Wakabayashi, Y. Kusama

Depolarization of Thomson scattering light through relativistic effect and optical components in ITER

P5.056 D. Zhang, R. Burhenn, M. Hirsch, H.P. Laqua, R. König, J.W. Oosterbeek, J. Baldzuhn, P.A. Grodzki, K. Ewert, K. Grosser, A. Cardella and the W7-X Team

Suppression of high-power microwave impact onto diagnostic detectors during ECR-heating of fusion plasmas

P5.057 M. Rubel, V. Philipps, A. Huber, D. Ivanova, P. Petersson, B. Schweer and M. Zlobinski

Overview of Fuel Removal Methods from Plasma-Facing Components

P5.058 Sang, C., Bonnin, X., Warrier, M., Rai, A., Sun, J., Wang, D.

Modeling of Hydrogen reactive-diffusive transport and inventory in porous media with mixed materials deposited layers

P5.059 A. Scaggion, M.Agostini, L.Carraro, A.Fassina, R.Lorenzini, B.Momo, S.Munaretto, .E.Puiatti, G.Spizzo, M.Valisa

Characterization of external electron temperature profile in the RFX-mod Reversed Field Pinch

P5.060 Michiya Shimada, Richard A. Pitts

Glow discharge cleaning on ITER

P5.061 A. Sirinelli, Yu. F. Baranov, S. Devaux and JET-EFDA Contributors

Details of type-I ELM crashes on JET revealed using fast-sweep reflectometry

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