



European Physical Society

38th Conference on Plasma Physics

Strasbourg, France, 27 June – 01 July 2011

Participant Booklet

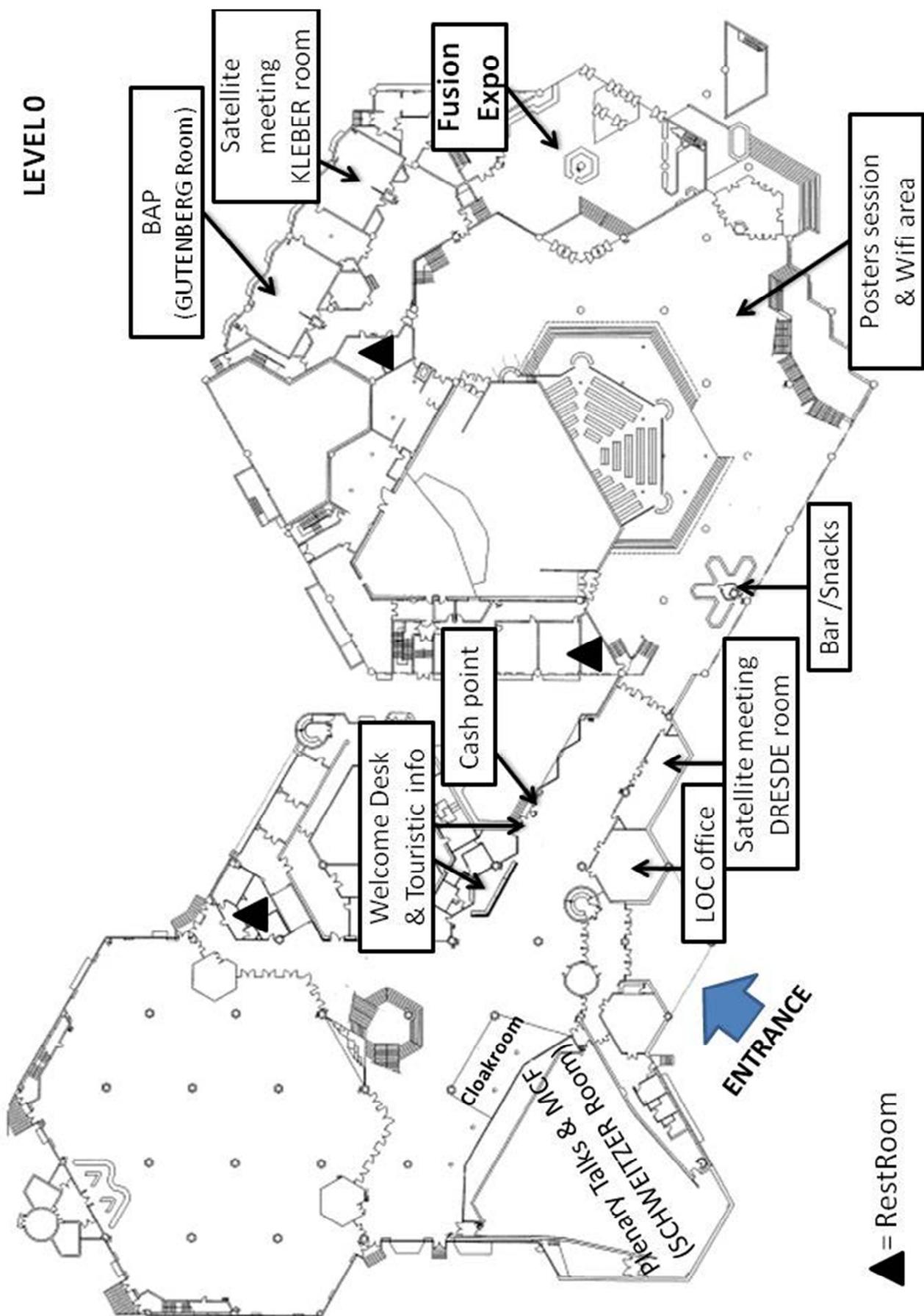


Content

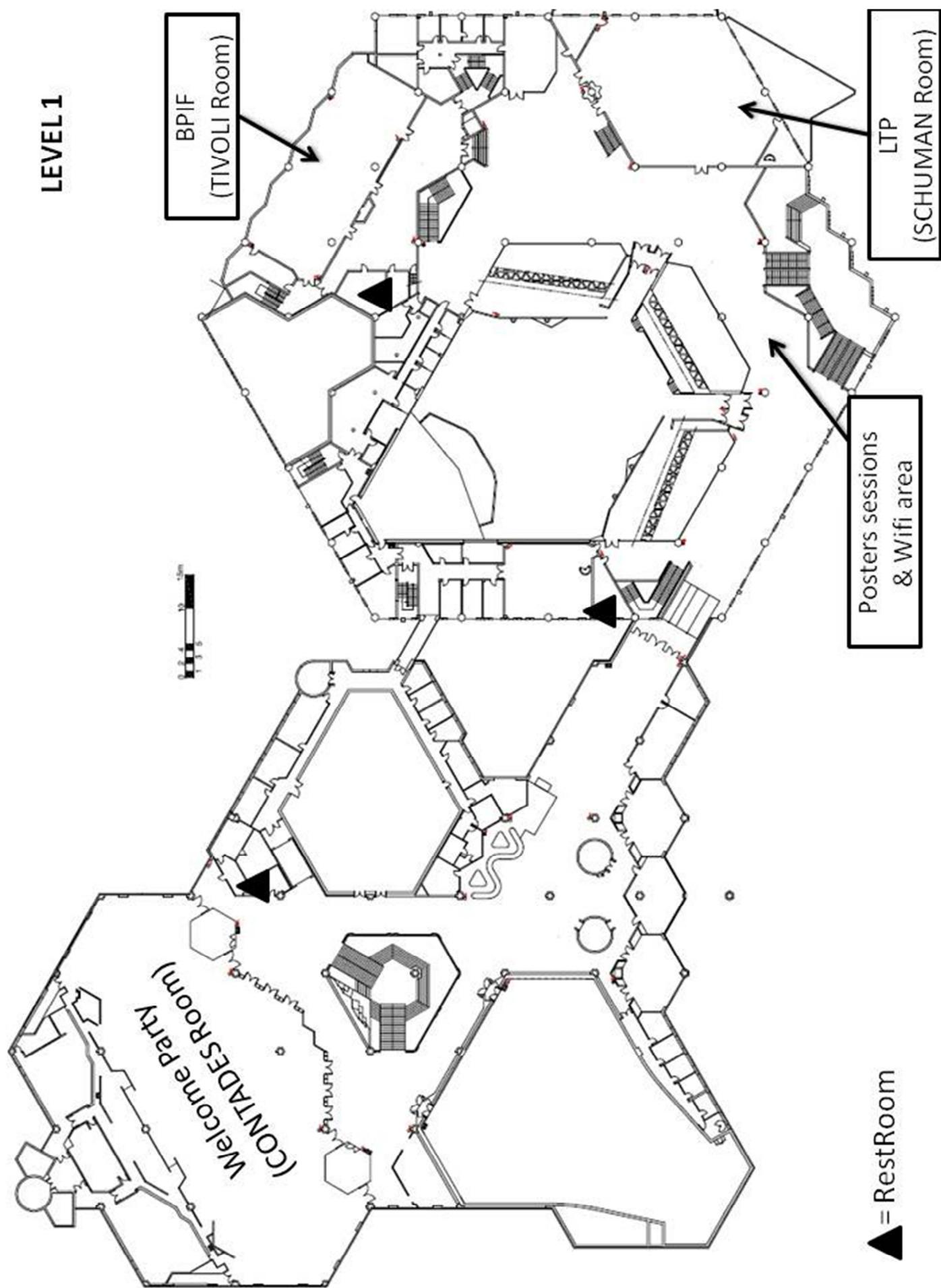
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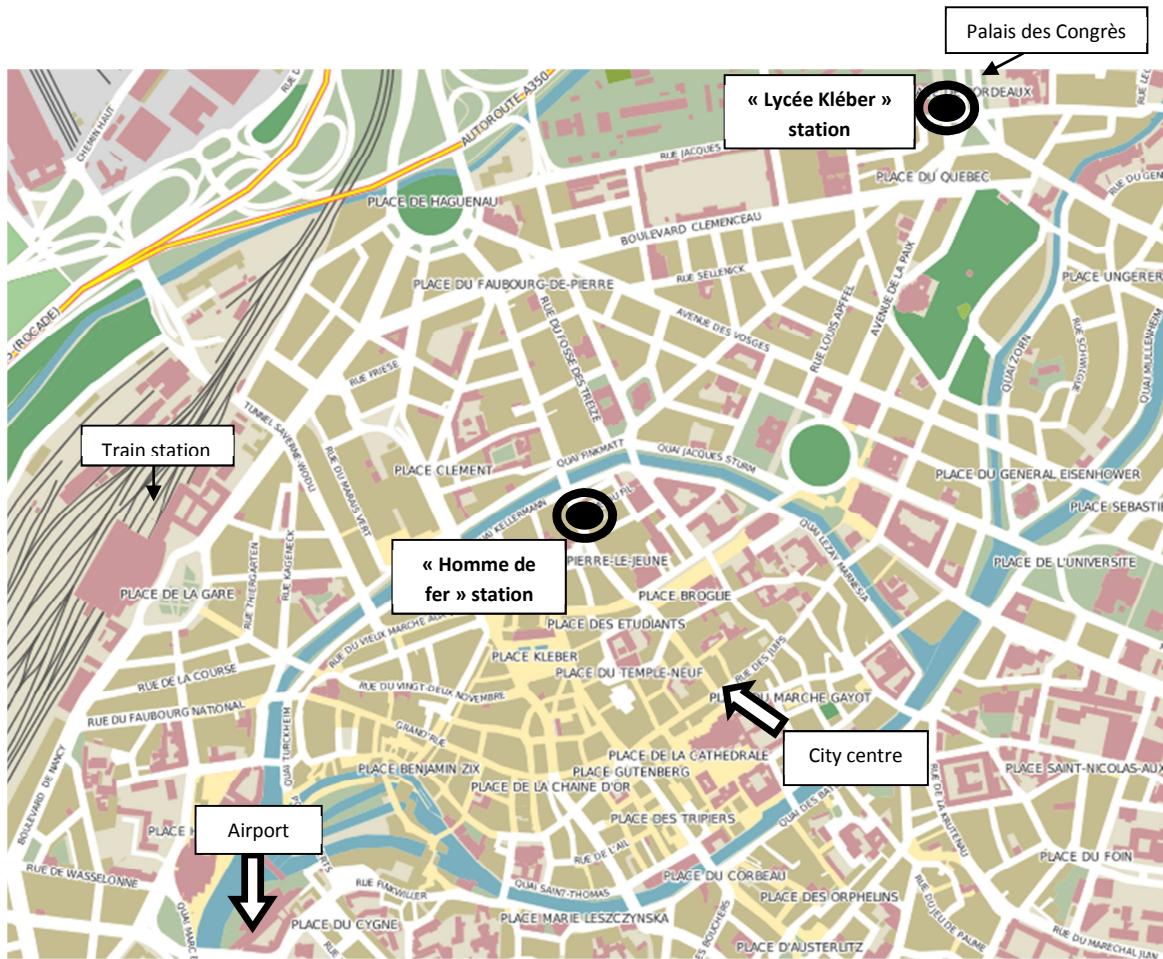
Information for Participants



LEVEL 1



Get around Strasbourg: City center - Train Station and Airport



✓ Transportation from « EPS Congress » to the city centre:

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

✓ Transportation from “EPS Congress ” to the train station:

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”.

✓ Transportation from “EPS congress” to the airport:

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> .

✓ Taxi companies (English speaking):

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 Churchill", "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).

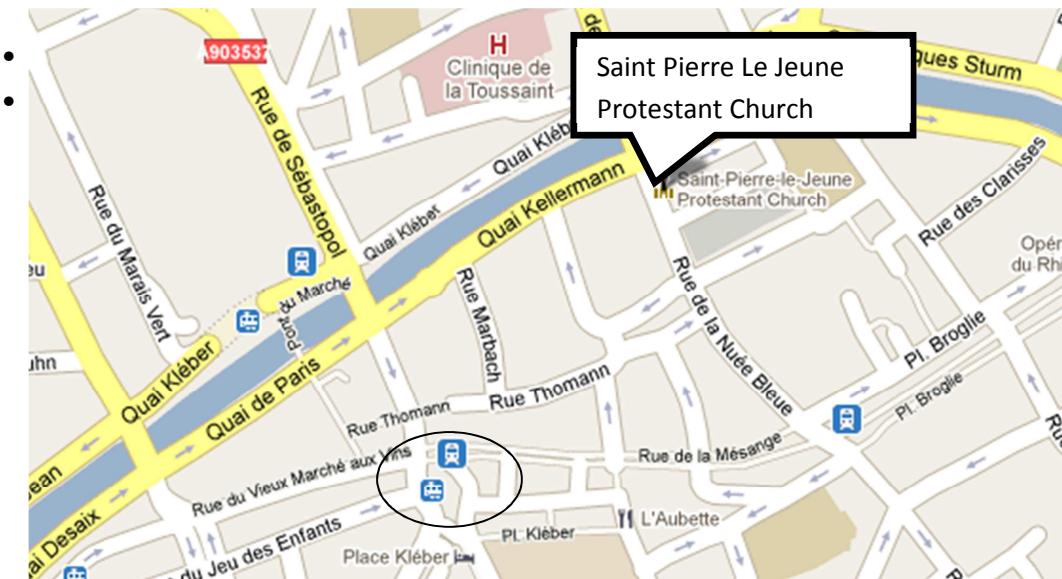
- Tour 3: Haut-Koenigsbourg castle and a winery

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**

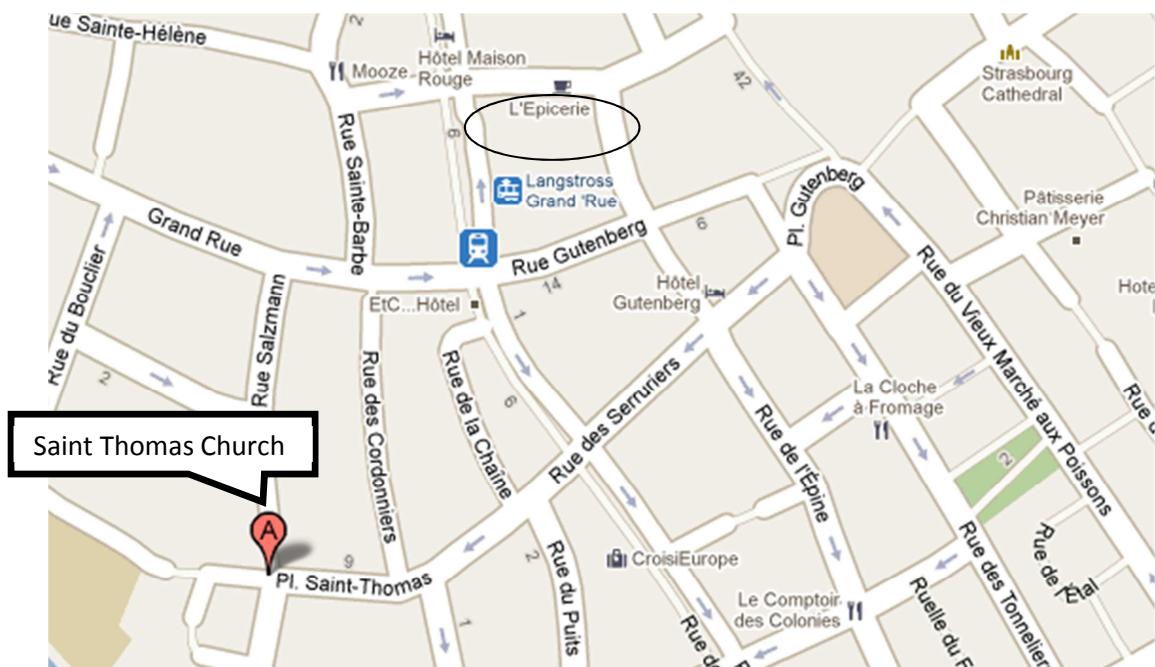
A concert of medieval music will be offered free of charge to participants and accompanying persons on Tuesday evening (9pm) in St Pierre Le Jeune Church. Access to the concert will require pre-registration at the congress. The concert is open to local inhabitants too. Priority will be given to Conference 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 there. 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 III** 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 III, 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 taste 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 sure 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 Bécolet, 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 Alfvén 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-Alfvén 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. Minguez

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

P1.022 E.L. Clark, C. Kamperidis, S.M. Hassan, N. A. Papadogiannis and Michael Tatarakis

On the HiPER Fundamental Science Programme

P1.023 S. Bellucci, S. Paleari, D. Batani, T. Vinci, R. Benocci, K. Shigemori, Y. Hironaka, T.

Kadono, A. Shiroshita, P. Piseri, A. Mangione

On the laser induced shock-compressed high-pressure reflective phase of liquid carbon

P1.024 B. Dubroca, E. D'Humières, R. Duclous, J.L. Feugeas, M. Frank, J. Mallet

J.P. Morreeuw, P. Nicolai, V.T. Tikhonchuk

Moment closure for relativistic transport of charged particles

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. Cricosta, 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 shock ignition

P1.027 J. Gruenwald, R. Stenzel, C. Ionita, R. Schrittwieser

Electron transit time instabilities in inverted fireballs

P1.028 G. Lehmann and K.H. Spatschek

Raman and Brillouin scattering in ultra-relativistic laser-plasma interaction

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

P1.030 Rostomyan, E.

Dissipative instability under weak beam-plasma coupling

P1.031 M. King, S.L. McConville, K. Ronald, D.C. Speirs, R. Bryson, K.M. Gillespie,

A.D.R. Phelps, R. Bingham , A.W. Cross, C.G. Whyte, R.A. Cairns, I. Vorgul,

and R. Trines

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

P1.034 V. Yahia, S. Depierreux, C. Goyon, G. Loisel, D.T. Michel, C. Labaune,

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, R. Wrobel

Experimental study of parametric instabilities with a plasma-smoothed laser beam

P1.035 C. Yañez, J. Sanz, M. Olazabal-Loumé and L. F. Ibañez

Modeling hydrodynamic instabilities of double ablation fronts in inertial confinement fusion targets

P1.036 Zhang Yang, Chen Ding-yang, Xue Chuang, Ding Ning, Li Zheng-hong

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

Implementation and operational use of diagnostics to determine the useable energy in the center of the chamber on the LIL

P1.040 A.Kasperczuk, T. Pisarczyk, T. Chodukowski, Z. Kalinowska, S.Yu. Guskov, N.N.

Demchenko, J. Ullschmied, E. Krousky, M. Pfeifer, K. Rohlena, J. Skala, and P. Pisarczyk

Influence of plastic plasma on process of aluminium plasma jet formation

P1.041 V.T. Limpouch, S. Yu. Gus'kov, V.T. Tikhonchuk

Propagation of a laser-supported ionization wave in an underdense target

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

A spectral method for the stability of BGK modes and application to vortex-fusion instabilities and SRS saturation

P1.044 T. Andreeva, T. Bräuer, M. Endler, J. Kißlinger

Compensation of Wendelstein 7-X construction errors by optimisation of module positions

P1.045 A. Beklemishev, V. Astrelin, A. Burdakov, A. Ivanov, I. Ivanov, V. Postupaev, S. Sinitsky

Fusion prospects of axisymmetric traps with multi-mirror end plugs

P1.046 B. Coppi, F. Bombarda, P. Detragiache, A. Cardinali, A. Airolidi, G. Cenacchi, E. Azizov, E. Velikhov

International program for the ignitor experiment

P1.047 A. Alekseyev, A. Belov, V. Lazarev, S. Mirnov, A. Panov, V. Zabrodsky

Fast XUV plasma imaging: matrix array detector with 1 Mfps frame rate

P1.048 Y. Aouad, F.B. Rosmej, V.S. Lisitsa, A.V. Demura

Calculation of atomic complex spectra in non-local-thermodynamical-equilibrium plasmas

P1.049 D. Baião, F. Medina, M. Ochando, I. Pastor, C. Varandas and the TJ-II Team

Sensitivity of central electron temperature estimations with the multi-foil diagnostic to profile transitions in TJ-II NBI-heated plasmas

P1.050 J.G. Bak, S.G. Lee, J.-K. Park, J.H. Kim, H.S. Kim, K.D. Lee, and the KSTAR Team

Mirnov coil measurements for study of MHD instabilities in KSTAR plasmas

P1.051 S. Che, B.J. Tobias, G.J. Kramer, E. Valeo, C.W. Domier, N.C. Luhmann, H.K Park, and W. Lee

DIII-D Microwave Imaging Reflectometer (MIR) design criteria and performance parameters evaluated by full-wave synthetic diagnostic

P1.052 A. Czarnecka, M. Kubkowska, W. Figacz, S. Jabłonski, J. Kaczmarczyk, J. Wołowski, C. Biedermann, R. Burhenn, R. König, A. Weller.

Concept of pulse height analysis system (PHA) for Wendelstein 7-X

P1.053 R. D'Inca, M. Garcia-Munoz, G. Tardini, J-M. Noterdaeme and the ASDEX Upgrade Team
Characteristics of Ion Cyclotron Emission on ASDEX Upgrade

P1.054 Hu, L.Q.

Technical development for measurement of the plasma radiation on the EAST tokamak

P1.055 Y.M.Duan, L.Q.Hu, S.T.Mao, K.Y.Chen, S.Y.Lin and EAST diagnostics Team

Preliminary results of the Pt foil resistive bolometer on EAST

P1.056 R. Dux, B. Geiger, R. M. McDermott, T. Pütterich and ASDEX Upgrade team

Impurity density determination using charge exchange and beam emission spectroscopy at ASDEX Upgrade

P1.057 R.F. Ellis, M.E. Austin, R.E. Feder, A.E. Hubbard , A. Ouroua, H. Pandya, A. Patel, P.Phillips, W.L. Rowan

Electron Cyclotron Emission Diagnostics for ITER

P1.058 E.Andersson Sundén, S.Conroy, G.Ericsson, C.Hellesen, M.Skiba, M.Cecconello, J.Eriksson, S.Sangaroon, M.Weiszflog, I.Wodniak and EFDA-JET contributors

Developments of time-of-flight and proton recoil neutron spectrometry techniques in view of a possible JET DT campaign and for ITER

P1.059 J. Adamek, J. Horacek, H.W. Müller, R. Schrittweis, M. Tichy, A.H. Nielsen, and ASDEX Upgrade Team

Fast ion temperature measurement using ball-pen probe in SOL of ASDEX Upgrade.

P1.060 J-W. Ahn, A. Loarte, R. Maingi, A.G. McLean, J.M. Canik, V.A. Soukhanovskii, T.K. Gray, B. LeBlanc, and A.L. Roquemore

Effect of 3-D fields on divertor detachment and associated pedestal profiles in NSTX H-mode plasmas

P1.061 L. Aho-Mantila, M. Wischmeier, K. Krieger, H.W. Müller, S. Potzel, V. Rohde, A. Hakola, D.P. Coster, A. Kirschner, ASDEX Upgrade Team

Effect of field reversal on carbon migration in the outer divertor of ASDEX Upgrade

P1.062 S. Y. Allan, S. Elmore, A. Kirk, M. Kočan and P. Tamain

Ion energy measurements using a RFEA on MAST

P1.063 A.S. Arakcheev, K.V. Lotov

Model of brittle destruction based on hypothesis of scale similarity

P1.064 S. Bardin, N. Endstrasser, F. Brochard, T. Lunt, J-L Briançon, V. Rohde, J. Bougdira, R. Neu, and the ASDEX Upgrade team

Statistical analysis of dust production rates as a function of discharge conditions using fast imaging in ASDEX Upgrade

P1.065 L. Bardoczi, S. Zoletnik, Y. Xu, I. Shesterikov, A. Krämer-Flecken, S. Soldatov, G. Petravich, D.Refy and the TEXTOR Team

Spatiotemporal structure of Geodesic Acoustic Modes in the edge plasma of TEXTOR

P1.066 G. Calabrò, F. Crisanti, G. Ramogida, G. Maddaluno, P. Micozzi, V. Pericoli Ridolfini, B. Viola
Snowflake divertor plasma studies on FAST proposal

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. Sutrop, 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.Maracheck, 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. Zhuravlev

GAM evolution in the H-mode discharge of the TUMAN-3M tokamak

P1.116 O. Asunta, S. Ääslompolo, 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. Cromb  , Y. Xu, X.Xu, A. Bogomolov, C. Giroud, A. Kr  mer-Flecken, Y.Liang, J. Ongena, Y. Sun, G. Van Oost, G. Verdoollaeghe 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. Kr  mer-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. L  nnroth, V. Naulin, A.G. Peeters, W. Solomon, D. Strintzi, M. Tsallas,

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 | Dizi  re, 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 Alfvén 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 Alfvénic-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. Ioniță, 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. Czirkowski, 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. Freathy, 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. Shuvayev**
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.

**Beiersdorfer, 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 ELM My 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. Iguchine, 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 $q_{\text{edge}} \approx 2$

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.Poshekhanov, 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. Elbezé, 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. Verwiche

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 Laloussi, 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. Capitelli

- | | |
|----------------------------|---|
| 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. plasmas	Predictions of alpha heating in ITER L-mode and H-mode
10:25 03.112	Lang, P.T. mitigation with the new active in-vessel saddle coils in ASDEX Upgrade	High density H-mode operation by pellet injection and ELM
10:40 03.113	Wright, J.C. particle distributions in fusion plasma	Time Dependent evolution of RF-generated non-thermal
10:55 03.114	Laqua, H.P. over-dense Plasmas	Multi-Frequency Microwave Heating and Current Drive in
11:10 03.115	Buratti, P.	Onset of tearing modes in JET advanced scenarios
11:25 03.116	Imada, K. threshold	Collision frequency dependence of neoclassical tearing mode
11:40 03.117	Reux, C. gas injection on Tore Supra	Non-linear MHD simulation of disruptions induced by massive
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. collisionless reconnection.	Nonlinear growth acceleration in gyrofluid simulations of collisionless reconnection.
11:25 04.410 Goldman, M.V. magnetic reconnection	3-D implicit-PIC simulations of nonlinear waves during magnetic reconnection
11:40 04.411 Bandyopadhyay, P. produced magnetized plasma	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-pinchers 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-pinchers

P4.009 Abdashitov 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. Hraby, 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., Abdrazhitov 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.Sutrop, 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. Pégorié, 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. Voskoboinikov, 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

Sawtooth precursors in ASDEX Upgrade

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.Shevlev, 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

The effect of resonant magnetic perturbations on runaway electrons

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

P4.110 (canceled)

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. Gurevich, E.Z. Gusakov, J.A. Heikkinen, S.J. Janhunen, T.P. Kiviniemi, T. Korpilo, S.I. Lashkul 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 beam 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 ignition.
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. Sutrop

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 Alfvén 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. Fiúza, 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., Drenská, 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. Klímo, 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. Cricosta, 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 Laloucis, George H. Miley and Stavros D. Moustakidis**
 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. initksy, 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

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