

14. PUBLICATIONS

14.1. MAGNETIC FUSION

14.1.1. Ph.D thesis

- “Sistema de temporização e gestão de eventos para dispositivos experimentais de fusão nuclear”
Jorge de Sousa, June 2002
Universidade Técnica de Lisboa
- “Automatic time-frequency analysis for plasma density profile evaluation from microwave reflectometry”
Paulo Varela, July 2002
Universidade Técnica de Lisboa
- “O diagnóstico de espalhamento Thomson do tokamak ISTTOK”
Manuel Peres Alonso, October 2002
Universidade Técnica de Lisboa
- “Transition-probability formulation of the electron kinetics during rf current drive of fusion plasmas”
Jorge Belo, November 2002
Universidade Técnica de Lisboa

14.1.2. Master thesis

- “Discretização de operadores de Fokker-Planck unidimensionais em grelhas não-uniformes”
Paulo Rodrigues, June 2002
Universidade Técnica de Lisboa
- “Sistemas de visão laser para inspeção de grandes máquinas de fusão”
Rita Pereira, July 2002
Universidade de Coimbra
- “Dois diagnósticos de raios-X de análise de amplitude de impulsos para o tokamak TCV”
Teresa Madeira, July 2002
Universidade Técnica de Lisboa

14.1.3. Books

- “Proceedings of the 29th EPS Conference on Plasma Physics and Controlled Fusion”
R. Behn, C.A.F. Varandas
ECA 26B, European Physical Society, Geneva, 2002

14.1.4. Articles in scientific journals

- “Neutral beam stabilization of sawtooth oscillations in JET”
Angioni, C., A. Pochelon, N.N. Gorelenkov, K.G. McClements, O. Sauter, R.V. Budny, P.C. de Vries, D.F. Howell, M. Mantsinen, M.F.F. Nave, S.E. Sharapov and contributors to the EFDA-JET Workprogramme
Plasma Phys. Control. Fusion, 44, 2, 205-222, 2002
- “Confinement and stability on the TJ-II stellarator”
Ascasibar, E., C. Alejandre, J. Alonso, L. Almoguera, A. Baciero, R. Balbin, E. Blanco, M. Blaumoser, J. Botija, B. Brañas, A. Cappa, R. Carrasco, F. Castejón, J.R. Cepero, A.A. Chmyga, J. Doncel, N.B. Dreval, S. Eguilior, L. Eliseev, T. Estrada, O. Fedyanin, A. Fernández, J.M. Fondecaba, C. Fuentes, A. Garcia, I. Garcia-Cortés, B. Gonçalves, J. Guasp, J. Herranz, A. Hidalgo, J.A. Jiménez, I. Kirpichev, S.M. Khrebtov, A.D. Komarov, A.S. Kozachok, L. Krupnik, F. Lapayese, K. Likin, M. Liniers, D. López-Bruna, A. López-Fraguas, J. López-Rázola, E. de la Luna, A. Malaquias, R. Martín, M. Medrano, A.V. Melnikov, P. Méndez, K.J. McCarthy, F. Medina, B. van Milligen, I.S. Nedzelskiy, M. Ochando, L. Pacios, I. Pastor, M.A. Pedrosa, A. de la Peña, A. Petrov, S. Petrov, A. Portas, J. Romero, L. Rodriguez-Rodrigo, A. Salas, E. Sanchez, J. Sanchez, K. Sarkisyan, S. Schchepetov, N. Skvortsova, F. Tabarés, D. Tafalla, V. Tribaldos, C.A.F. Varandas, J. Vega and B. Zurro.
Plasma Phys. Control. Fusion, 44, (12B) B307, 2002
- “Real-time determination of internal inductance and magnetic axis radial position in JET”
Barana, O., A. Murari, E. Joffrin, F. Sartori and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, (10) 2271, 2002

- “*A distributed, hardware reconfigurable and packet switched real-time control and data acquisition system*”
Batista, A.J.N., A. Combo, J. Sousa and C. Varandas
Fusion Engineering and Design, 60, (3), 443, 2002
- “*ELMs behaviour and edge plasma stability in JET*”
Becoulet, M., V. Parail, G. Huysmans, S. Sharapov, P.J. Lomas, G. Saibene, R. Sartori, A. Loarte, G.F. Matthews, W. Suttrop, J. Stober, A. Kallenbach, E. Joffrin, Y. Sarazin, X. Litaudon, A. Becoulet, Ph. Ghendrih and Contributors to the EFDA-JET Work Programme
Plas. Phys. Control. Fusion, 44, A103-A112, 2002
- “*Images of electron kinetics during electron-cyclotron current drive in tokamak plasmas using Gaussian short-time propagators*”
Belo, J.H., and J.P.S. Bizarro
IEEE Transactions on Plasma Science, 30, 70, 2002
- “*Modelling of Alfvén waves in JET plasmas with the CASTOR-K code*”
Borba, D., H.L. Berk, B.N. Breizman, A. Fasoli, F. Nabais, S.D. Pinches, S.E. Sharapov, D. Testa and contributors to the EFDA-JET Workprogramme
Nuclear Fusion, 42, (8), 1029-1038, 2002
- “*Natural density formation as an H-mode operational limit*”
Borrass, K., ASDEX Upgrade Team and EFDA-JET Workprogramme collaborators
Nuclear Fusion, 42, (10), 1251, 2002
- “*Microturbulence and flow shear in high-performance JET ITB plasma*”
Budny, R.V., R. Andre, A. Bécoulet, C.D. Challis, G.D. Conway, W. Dorland, D.R. Ernst, T.S. Hahm, T.C. Hender, D. McCune, G. Rewoldt, S.E. Sharapov and contributors to the EFDA-JET Workprogramme
Plas. Phys. Control. Fusion, 44, (7), 1215, 2002
- “*Effect of low magnetic shear induced by lower hybrid current drive on high performance internal transport barriers in the Joint European Torus (JET)*”
Castaldo, C., R. Cesario, A. Cardinali, X. Litaudon, J. Mailloux, V. Parail, T. Tala, F. Crisanti, C. Gormenzano, L. Panaccione, F. Santini, P. Smeulders, A.A. Tucillo and Contributors to the EFDA-JET Workprogramme
Physics of Plasma, 9, (8), 3205, 2002.
- “*Influence of the q-profile shape on plasma performance in JET*”
Challis, C.D., X. Litaudon, G. Tresset, Yu F. Baranov, A. Bécoulet, C. Giroud, N.C. Hawkes, D.F. Howell, E. Joffrin, P.L. Lomas, J. Mailloux, M.J. Mantsinen, B.C. Stratton, D.J. Ward, K-D Zastrow and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, (7), 1031, 2002
- “*Turbulence behaviour during electron heated reversed shear discharge in JET*”
Conway, G.D., G.M.D. Hogeweij, M.R. de Baar, Yu Baranov, R. barnsley, N.C. Hawkes, X. Litaudon, J. Mailloux, E. Righi, F.G. Rimini, K-D Zastrow and contributors to the EFDA-JET Workprogramme
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- “*Energy confinement in steady-state ELMy H-modes in JET*”
Cordey, J.G., D.C. McDonald, K. Borrass, M. Charlet, I. Coffey, A. Kallenbach, K. Lawson, P. Lomas, J. Ongena, J. Rapp, F. Ryter, G. Saibene, R. Sartori, M. Stamp, J. Strachan, W. Suttrop, M. Valovic and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, 1929, 2002
- “*A large memory, high transfer rate VME data acquisition system for the JET correlation reflectometer*”
Cruz, N., R. Pereira, M. Correia, L. Cupido, C. Correia and C. Varandas
Fusion Engineering and Design, 60, (3), 273, 2002
- “*Modelling of mixed-phasing antenna-plasma interactions on JET A2 antennas*”
D’Ippolito, D.A., J.R. Myra, P.M. Ryan, E. Righi, J. Heikkinen, P.U. Lamalle, J.-M. Noterdaeme and Contributors to the EFDA-JET Workprogramme
Nuclear Fusion, 42, (12), 1357, 2002
- “*Confinement properties of high density impurity seeded ELMy H-mode discharges at low and high triangularity on JET*”
Dumortier, P., P. Andrew, G. Bonheure, R.V. Budny, R. Buttery, M. Charlet, I. Coffey, M. de Baar, P.C. de Vries, T. Eich, D. Hillis, C. Ingesson, S. Jachmich, G. Jackson, A. Kallenbach, H.R. Koslowski, K.D. Lawson, C. Liu, G. Maddison, A.M. Messiaen, P. Monier-Garbet, M. Murakami, M.F.F. Nave, J. Ongena, V. Parail, M.E. Puiatti, J. Rapp, F. Sartori, M. Stamp, J.D. Strachan, W. Suttrop, G. Telesca, M. Tokar, B. Unterberg, M. Valisa, M. von Heller-

- mann, B. Weyssow and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, 1845, 2002
- “MHD spectroscopy”
Fasoli, A., D. Testa, S. Sharapov, H.L. Berk, B. Breizman, A. Gondhalekar, R.F. Heeter, M. Mantsinen and contributors to the EFDA-JET Workprogramme
Plasma Phys. Control. Fusion, 44, (12B) B159, 2002
 - “A CORBA sharing and messaging server-client information system”
Fernandes, H., J.P.A. Pereira and C. Varandas
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 - “Time-frequency images of magnetohydrodynamic phenomena in tokamak plasmas using a discrete-time Wigner distribution”
Figueiredo, A.C.A., and J.P.S. Bizarro
IEEE Transactions on Plasma Science, 30, (1), 54, 2002
 - “On a variational approach to the extraction of quadratures from broadband reflectometry signals”
Figueiredo, A.C.A., and J.P.S. Bizarro
Rev. Sci. Instrum., 73, (2) 289, 2002
 - “Interpretation of recent power width measurements in JET MkII/GB ELMy H-modes”
Fundamenski, W., S. Sipilä, G.F. Matthews, V. Riccardo, P. Andrew, T. Eich, L.C. Ingesson, T. Kiviniemi, T. Kurki-Suonio, V. Philipps and contributors to the EFDA-JET Workprogramme
Plas. Phys. Control. Fusion, 44, (6) , 761, 2002
 - “Determination of the Tungsten divertor retention at ASDEX Upgrade using a sublimation probe”
Geier, A., H. Maier, R. Neu, K. Krieger and ASDEX Upgrade Team
Plas. Phys. Control. Fusion, 44, 2091-2100, 2002
 - “Behaviour of disruption generated runaways in JET”
Gill, R.D., B. Alper, M. de Baar, T.C. Hender, M.F. Johnson, V. Riccardo and contributors to the EFDA-JET Workprogramme
Nuclear Fusion, 42, (8), 1039-1044, 2002
 - “Experimental investigation of dynamical coupling between density gradients, radial electric fields and turbulent transport in the JET plasma boundary region”
Gonçalves, B., C. Hidalgo, M.A. Pedrosa, K. Ereints, G. Matthews, B. Van Milligen, E. Sánchez, C. Silva
Nuclear Fusion, 42, (10), 1205, 2002
 - “Temporal evolution of neoclassical tearing modes and its effect on confinement reduction in ASDEX Upgrade”
Gude, A., S. Gunter, M. Maraschek, H. Zoh, and the ASDEX Upgrade Team
Nuclear Fusion, 42, (7), 833-840, 2002
 - “Small-angle scattering and spatial resolution of fluctuation reflectometry: comparison of 2D analytical theory with numerical calculations”
Gusakov, E.Z., G. Leclert, I. Boucher, S. Heraux, S. Hacquin, M. Colin, V.V. Bulanin, A.V. Petrov, B.O. Yakovlev, F. Claret and X.L. Zou.
Plas. Phys. Control. Fusion, 44, (8), 1565, 2002
 - “The formation and evolution of extreme shear reversal in JET and its influence on local thermal transport”
Hawkes, N.C., Y. Andrew, C.D. Challis, R. De Angelis, V. Drozdov, J. Hobirk, E. Joffrin P. Lotte, D. Mazon, E. Rachlew, S. Reyes-Cortes, F. Sattin, E. Solano, B.C. Stratton, T. Tala, M. Valisa and contributors to the EFDA-JET Workprogramme
Plas. Phys. Control. Fusion, 44, (7) , 1105, 2002
 - “MHD stability with strongly reversed magnetic shear in JET”
Hender, T.C., P. Hennequin, B. Alper, T. Hellsten, D.F. Howell, G.T.A. Huysmans, E. Joffrin, P. Maget, J. Manickam, M.F.F. Nave, A. Pochelon, S.E. Sharapov and contributors to the EFDA-JET Workprogramme
Plas. Phys. Control. Fusion, 44, (7) , 1143, 2002
 - “Neutron emission from JET DT plasmas with RF heating on minority hydrogen”
Henriksson, H., S. Conroy, G. Ericsson, G. Gorini, A. Hjalmarsson, J. Källne, M. Tardocchi and contributors to the EFDA-JET Workprogramme
Plas. Phys. Control. Fusion, 44, (7) , 1253, 2002

- *“Empirical similarity in the probability density function of turbulent transport in the edge plasma region in fusion plasmas”*
Hidalgo, C., B. Gonçalves, M.A. Pedrosa, J. Castellano, K. Ereints, A.L. Fraguas, M. Hron, J.A. Jiménez, G.F. Matthews, B. van Milligen and C. Silva
Plas. Phys. Control. Fusion, 44, (8), 1557, 2002
- *“Fluctuations, sheared radial electric fields and transport interplay in fusion plasmas”*
Hidalgo, C., M.A. Pedrosa and B. Gonçalves
New Journal of Physics, 4, 51.1-51.12, 2002
- *“Effect of ELMs on the measurement of vertical plasma position in TCV and JET”*
Hofmann, F., I. Furno, S. Gerasimov, Y. Martin, F. Milani, M.F.F. Nave, H. Reimerdes, F. Sartori, O. Sauter
Nuclear Fusion, 42, 59-65, 2002
- *“Electron heated internal transport barriers in JET”*
Hogeweij, G.M.D., Y. Baranov, G.D. Conway, S.R. Cortes, M.R. De Baar, N. Hawkes, F. Imbeaux, X. Litaudon, J. Mailloux, F.G. Rimini, S.E. Sharapov, B.C. Stratton, K-D Zastrow and contributors to the EFDA-JET Workprogramme
Plas. Phys. Control. Fusion, 44, (7), 1155, 2002
- *“Seeding of impurities in JET H-mode discharges to mitigate the impact of ELMs”*
Jachmich, S., G. Maddison, M.N.A. Beurskens, P. Dumortier, T. Eich, A. Messiaen, M.F.F. Nave, J. Ongena, J. Rapp, J. Strachan, M. Stamp, G. Telesca, B. Unterberg and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, 1879, 2002
- *“Comparison of L-mode regimes with enhanced confinement by impurity seeding in JET and DIII-D”*
Jackson, G.L., M. Murakami, D.R. Baker, R. Budny, M. Charlet, M.R. de Baar, P. Dumortier, T.E. Evans, R.J. Groebner, N.C. Hawkes, D.L. Hillis, L.C. Ingesson, E. Joffrin, H.R. Koslowski, K.D. Lawson, G. Maddison, G.R. McKee, A.M. Messiaen, P. Monier-Garbet, M.F.F. Nave, J. Ongena, J. Rapp, S. Sartori, G.M. Staebler, M. Stamp, J.D. Strachan, M. Tokar, B. Unterberg, M. von Hellerman, M.R. Wade and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, 1893, 2002
- *“q=1 advanced tokamak experiments in JET and comparison with ASDEX Upgrade”*
Joffrin, E., R. Wolf, B. Alper, Yu Baranov, C.D. Challis, M. de Baar, C. Giroud, C.W. Gowers, N.C. Hawkes, T.C. Hender, M. Marachek, D. Mazon, V. Parail, A. Peeters, K-D Zastrow and contributors to the EFDA-JET Workprogramme
Plas. Phys. Control. Fusion, 44, (7), 1203, 2002
- *“Triggering of internal transport barrier in JET”*
Joffrin, E., G. Gorin, C.D. Challis, N.C. Hawkes, T.C. Hender, D.F. Howell, P. Maget, P. Mantica, D. Mazon, S.E. Sharapov, G. Tresset and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, (8), 1739, 2002
- *“Scaling of the pedestal density in type-I ELMy H-mode discharges and the impact of upper and lower triangularity in JET and ASDEX Upgrade”*
Kallenbach, A., M.N.A. Beurskens, A. Korotkov, P. Lomas, W. Suttrop, M. Charlet, D.C. McDonald, F. Milani, J. Rapp, M. Stamp, EFDA-JET Workprogramme contributors and ASDEX Upgrade Team
Nuclear Fusion, 42, (10), 1184, 2002
- *“ECRH power deposition studies in ASDEX Upgrade”*
Kirov, K., F. Leuterer, G. Pereverzev, F. Ryter, W. Suttrop and ASDEX Upgrade Team
Plas. Phys. Control. Fusion, 44, 2583-2602, 2002
- *“Monte Carlo simulations of central ion temperature measurements using neutral particle analysers”*
Kurki-Suonio, T., S. Sipila, J.A. Heikkinen, H.-U. Fahrbach, A. Khudoleev and ASDEX Upgrade Team
Plas. Phys. Control. Fusion, 44, 475-491, 2002
- *“High density operation at JET by pellet refuelling”*
Lang, P.T., B. Alper, L.R. Baylor, M. Beurskens, J.G. Cordey, R. Dux, R. Felton, L. Garzotti, G. Haas, L.D. Horton, S. Jachmich, T.T.C. Jones, A. Lorenz, P.J. Lomas, M. Maraschek, H.W. Müller, J. Ongena, J. Rapp, K.F. Renk, M. Reich, R. Sartori, G. Schmidt, M. Stamp, W. Suttrop, E. Villedieu, D. Wilson and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, 1919, 2002
- *“Optimization of pellet scenarios for long pulse fuelling to high densities at JET”*
Lang, P.T., B. Alper, L.R. Baylor, M. Beurskens, J.G. Cordey, R. Dux, R. Felton, L. Garzotti, G. Haas, L.D. Horton, S. Jachmich, T.T.C. Jones, P.J. Lomas, A. Lorenz, M. Maraschek, H.W. Müller, J. Ongena, J. Rapp, M. Reich, K.F. Renk, R. Sartori, G. Schmidt, M. Stamp, W. Suttrop, E. Villedieu
Nuclear Fusion, 42, 388-402, 2002

- “Error field locked modes thresholds in rotating plasmas, anomalous braking and spin-up”
Lazzaro, E., R. J. Buttery, T. C. Hender, P. Zanca, R. Fitzpatrick, M. Bigi, T. Bolzonella, R. Coelho M. DeBenedetti, S. Nowak, O. Sauter, M. Stamp
Contributors to the EFDA-JET work programme
Physics of Plasma, 9, (8), 3906, 2002.
- “Role of the shear flow profile on the stability of magnetic islands”
Lazzaro, E., R. Coelho, T. Ozeki
Physics of Plasma, 9, 371, 2002.
- “Generic structure of externally driven tearing modes instabilities”
Lazzaro, E., and R. Coelho
Eur. Phys. J. D 19, 97, 2002
- “Towards fully non-inductive current drive operation in JET”
Litaudon, X., F. Crisanti, B. Alper, J.F. Artaud, Yu. Baranov, E. Barbato, V. Basiuk, A. Becoulet, M. Becoulet, C. Castaldo, C.D. Challis, G.D. Conway, R. Dux, L.G. Eriksson, B. Esposito, C. Fourment, D. Frigione, X. Garbet, C. Giroud, N.C. Hawkes, P. Hennequin, G. Huysmans, F. Imbeaux, E. Joffrin, P.L. Lomas, P. Lotte, P. Maget, M. Mantsinen, J. Mailloux, D. Mazon, F. Milani, D. Moreau, V. Parail, E. Pohn, F.G. Rimini, Y. Sarazin, G. Tresset, K.-D. Zastrow, M. Zerbini and Contributors to the EFDA-JET Work Programme
Plas. Phys. Control. Fusion, 44, 1057-1086, 2002
- “Characteristics and scaling of energy and particle losses during Type I ELMS in JET H-modes”
Loarte, A., M. Becoulet, G. Saibene, R. Sartori, D.J. Campbell, T. Eich, A. Herrmann, M. Laux, W. Suttrop, B. Alper, P.J. Lomas, G. Matthews, S. Jachmich, J. Ongena, P. Innocente and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, 1815, 2002
- “ELM moderation with ICRF heating on JET”
Maddison, G.P., J.A. Snipes, J-M Chareau, G.D. Conway, I.H. Hutchinson, L.C. Ingesson, H.R. Koslowski, A. Loarte, P.J. Lomas, M.J. Mantsinen, G.F. Matthews, L. Meneses, M.F.F. Nave, E. Righi, G. Saibene, R. Sartori, O. Sauter, K-D Zastrow and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, 1937, 2002
- “Development of tungsten coated first wall and high heat flux components for application in ASDEX Upgrade”
Maier, H., J. Luthin, M. Balden, S. Lindig, J. Linke, V. Rohde, H. Bolt and ASDEX Upgrade Team
Journal of Nuclear Materials, 307-311, 116-120, 2002
- “Progress in internal transport barrier plasma with lower hybrid current drive and heating in JET”
Mailloux, J., B. Alper, Yu. Baranov, A. Becoulet, A. Cardinali, C. Castaldo, R. Cesario, G.D. Conway, C.D. Challis, F. Crisanti, M. De Baar, P. De Vries, A. Ekedahl, K. Erents, C. Gowers, N.C. Hawkes, G.M.D. Hogeweyj, F. Imbeaux, E. Joffrin, X. Litaudon, P.J. Lomas, G.F. Matthews, D. Mazon, V. Pericoli, R. Prentice, F.G. Rimini, Y. Sarazin, B.C. Stratton, A.A. Tuccillo, T. Tala, K.-D. Zastrow and Contributors to the EFDA-JET Work Programme
Physics of Plasmas, 9, 2156-2164, 2002
- “Perturbative transport experiments in JET low or reverse magnetic shear plasmas”
Mantica, P., G. Gorini, F. Imbeaux, J. Kinsey, Y. Sarazin, R. Budny, I. Coffey, R. Dux, X. Garbet, L. Garzotti, C. Ingesson, M. Kissick, V. Parail, C. Sozzi, A. Walden and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, (10) 2185, 2002
- “Analysis of ion cyclotron heating and current drive at $\omega \approx 2\omega_{cH}$ for sawtooth control in JET plasmas”
Mantsinen, M.J., C. Angioni, L-G Eriksson, A. Gondhalekar, T. Hellsten, T. Johnson, M-L Mayoral, K.G. McClements, M.F.F. Nave, F. Nguyen, S. Podda, J. Rapp, O. Sauter, S.E. Sharapov, E. Westerhof and contributors to the EFDA-JET Workprogramme.
Plas. Phys. Control. Fusion, 44, (8), 1521, 2002
- “The effect of CD₄ puffing on the peripheral scrape-off layer in JET”
Matthews, G.F., S.K. Erents, G. Corrigan, W. Fundamenski, I. Garcia-Cortes, J. Mailloux, C. Hidalgo, M.A. Pedrosa, V. Pericoli, J. Spence, C. Silva, J. Strachan and contributors to the EFDA-JET Workprogramme
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- *“Real-time control of internal transport barriers in JET”*
Mazon, D., X. Litaudon, D. Moreau, M. Riva, G. Tresset, Y. Baranov, A. Bécoulet, J.M. Chareau, F. Crisanti, R. Dux, R. Felton, E. Joffrin and contributors to the EFDA-JET Workprogramme
Plas. Phys. Control. Fusion, 44, (7) , 1087, 2002
- *“ECH physics and new operational regimes on TCV”*
Moret, J-M., S.M. Ahmed, S. Alberti, Y. Andrebe, K. Appert, G. Arnoux, R. Behn, P. Blanchard, P. Bosshard, Y. Camenen, R. Chavan, S. Coda, I. Condea, A. Degeling, B.P. Duval, D. Fasel, A. Fasoli, J-Y Favez, T. Goodman, M. Henderson, F. Hofmann, J-P Hogge, J. Horacek, P. Isoz, B.Joye, A. Karpushov, I. Klimanov, J.B. Lister, X. Llobet, T. Madeira, J-C Magnin, A. Manini, B. Marlétaz, P. Marmillod, Y. Martin, A. Martynov, J-M Mayor, J. Mlynar, E. Nelson-Melby, P. Nikkola, J.P. Paris, A. Perez, Y. Peysson, R.A. Pitts, A. Pochelon, L. Porte, O. Sauter, A. Scarabosio, E. Scavino, S-H Seo, U. Siravo, A. Sushkov, G. Tonetti, M.Q. Tran, H. Weisen, M. Wischmeier, A. Zabolotsky and G. Zhuang.
Plasma Phys. Control. Fusion, 44, (12B) B85, 2002
- *“High β plasmoid formation, drift and striations during pellet ablation in ASDEX Upgrade”*
Müller, H.W., R. Dux, M. Kaufmann, P.T. Lang, A. Lorentz, M. Maraschek, V. Mertens, J. Neuhauser and ASDEX Upgrade
Nuclear Fusion, 42, 301-309, 2002
- *“Transport in high normalized beta discharges on ASDEX Upgrade”*
Na, Yong-Su., A.C.C. Sips, O. Gruber, J. Hobirk, G. Pereverzev and ASDEX Upgrade team
Plas. Phys. Control. Fusion, 44, (7) , 1285, 2002
- *“Fast particle effects on the sawtooth stability of JET DT discharges”*
Nave, M.F.F., N.N. Gorelenkov, K.G. McClements, S.J. Allfrey, B. Balet, D.N. Borba, P.J. Lomas, J. Manickam, T.T.C. Jones, P.R. Thomas
Nuclear Fusion, 42, 281–289, 2002
- *“Impurity behaviour in the ASDEX Upgrade divertor tokamak with large area tungsten walls”*
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- “Impact of different heating and current drive methods on the early q -profile evolution in JET”
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 - “Comparison of theory based transport models with ASDEX Upgrade data”
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 - “Parallel correlation measurements in the scrape-off layer of the Joint European Torus (JET)”
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 - “Predictive modelling of impurity seeded plasmas in JET”
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 - “A dimensionless criterion for characterizing internal transport barriers in JET”
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 - “Particle recirculation studies in JET”
Tsitrone, E., J. Bucalossi, T. Loarer, Ph. Ghendrih, A. Loarte, P. Andrew, P. Coad, W. Fundamenski, M. Stamp, D. Coster and contributors to the EFDA-JET WorkProgramme
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 - “Long timescale density peaking in JET”
Valovic, M., J. Rapp, J.G. Cordey, R. Budny, D.C. McDonald, L. Garzotti, A. Kallenbach, M.A. Mahdavi, J. Ongena, V. Parail, G. Saibene, R. Sartori, M. Stamp, O. Sauter, J. Strachan, W. Suttrop and contributors to the EFDA-JET Workprogramme.
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Westerhof, E., O. Sauter, M.L. Mayoral, D.F. Howell, M.J. Mantsinen, M.F.F. Nave, B. Alper, C. Angioni, P. Belo, R.J. Buttery, A. Gondhaleker, T. Hellsten, T.C. Hender, T. Johnson, P. Lamalle, M.E. Maraschek, K.G. McClements, F. Nguyen, A.L. Péquet, S. Podda, J. Rapp, S.E. Sharapov, M. Zabiego and contributors to the EFDA JET Workprogramme
Nuclear Fusion, 42, (11), 1324, 2002
- #### 14.1.5. Papers in international conferences
- 2nd Meeting of the ITPA Topical Group on ITER Diagnostics San Diego, USA, 4-8 March 2002
 - “Progress in charge exchange recombination spectroscopy (CXRS) and beam emission spectroscopy (BES) for ITER”
Hellermann, von M., R. Jaspers, P. Lotte, A. Malaquias, S. Tugarinov
 - “Study of mirror and Be coating effect on light polarization state – the ITER MSE case”
Malaquias, A., P. Lotte, R. Giannella, P. Nielsen, C. Walker
 - 57th Annual Meeting of Physical Society of Japan, Kusatsu, Japan, 24-27 March 2002
 - “Research needs for ITER diagnostics”
Costley, A.E., A. Malaquias, S. Tatsuo, G. Vayakis and C. Walker
 - “Spectroscopic diagnostics for the International Thermonuclear Experimental Reactor (ITER)”
Sugie, T., A. Costley, K. Ebisawa, A. Malaquias, C. Walker
 - 15th International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Gifu, Japan 27 April - 3 May, 2002
 - “Experimental Evidence of Fluctuations and Flows near Marginal Stability and Dynamical Interplay Between Gradients and Transport in the JET Plasma Boundary Region”
Hidalgo, C., B. Gonçalves, M. A. Pedrosa, C. Silva, R. Balbín, M. Hron, A. Loarte, K. Erents, G. F. Matthews e R. Pitts

- *"Runaway Effects at the Plasma Boundary in ISTTOK"*
Plyusnin, V. V., J. A. C. Cabral, H. Figueiredo, C.A.F. Varandas
- *"Influence of Electrode and Limiter Biasing on the ISTTOK Boundary Plasma"*
Silva, C., H. Figueiredo, J. A. C. Cabral, B. Gonçalves, I. Nedzelsky, C. A. F. Varandas
- **29th EPS Conference on Controlled Fusion and Plasma Physics, Montreux, Suisse 17-21 June, 2002**
- *"Confinement and stability on the TJ-II stellarator"*
Ascasibar, E., C. Alejaldre, J. Alonso, L. Almoguera, A. Baciero, R. Balbín, M. Blaumoser, J. Botija, B. Brañas, A. Cappa, J. Castellano, R. Carrasco, F. Castejón, J.R. Cepero, A.A. Chmyga, J. Doncel, N.B. Dreval, S. Eguilior, T. Estrada, A. Fernández, C. Fuentes, A. Garcia, I. Garcia-Cortés, B. Gonçalves, J. Guasp, J. Herranz, C. Hidalgo, J.A. Jiménez, I. Kirpichev, S.M. Khrebtov, A.D. Komarov, A.S. Kozachok, F. Lapayese, K. Likin, M. Liniers, D. López-Bruna, A. López-Fraguas, J. López-Rázola, A. López-Sanchez, E. de la Luna, A. Malaquias, R. Martín, M. Medrano, A.V. Melnikov, P. Méndez, K.J. McCarthy, F. Medina, B. Van Milligen, I.S. Nedzelskiy, M. Ochando, L. Pacios, I. Pastor, M.A. Pedrosa, A. de la Peña, A. Portas, J. Romero, L. Rodríguez-Rodrigo, A. Salas, e. Sanchéz, J. Sanchéz, F. Tabarés, D. Tafalla, V. Tribaldos, C.A.F. Varandas, J. Vega and B. Zurro
- *"Measurements of plasma potential fluctuations in the edge region of the ISTTOK plasma, using electron emissive probes"*
Balan, P., J.A.C. Cabral, H. Fernandes, H.F.C. Figueiredo, C. Ionita, R. Schrittwieser and C.A.F. Varandas
- *"Plasma potential measurements by heavy ion beam probing in the TJ-II stellarator"*
Chmyga, A.A., N.B. Dreval, S.M. Khrebtov, A.D. Komarov, A.S. Kozachok, L.I. Krupnik, A.V. Melnikov, B. Gonçalves, A. Malaquias, I.S. Nedzelskiy, C.A.F. Varandas, T. Estrada, C. Hidalgo, J. López, E. de la Luna, M.A. Pedrosa
- *"Location rational surfaces from reflectometer fluctuations"*
Conway, G.D., P.J. McCarthy, I. Nunes, A.C.C. Sips, F. Serra, S. Sesnic, M. Maraschek, A. Mück, W. Suttrop, M. Manso, ASDEX Upgrade and CFN Teams
- *"Current profile redistribution due to internal relaxation events in extreme reversed shear JET plasmas"*
Cortes, S.R., N.C. Hawkes, B.C. Stratton, M.F.F. Nave, D. Testa, P.A. Belo, E. Solano, V. Drozdov and C.A.F. Varandas
- *"Experimental evidence of turbulent transport near marginal stability in the plasma boundary region in the TJ-II stellarator"*
Gonçalves, B., C. Hidalgo, M.A. Pedrosa, E. Sánchez, B. Van Milligen
- *"Effect of the k-spectrum and the poloidal rotation of turbulence in reflectometry measurements"*
Hacquin, S., S. Heuraux, F. Silva, G. Leclert, M. Manso and F. Serra
- *"Progress in charge exchange recombination spectroscopy (CXRS) and beam emission spectroscopy (BES) for ITER"*
Hellermann, M. von, R. Jaspers, P. Lotte, A. Malaquias, S. Tugarinov
- *"Radial wave-number spectrum deduced from phase fluctuation spectrum given by a reflectometer"*
Heuraux, S., S. Hacquin, F. Silva, F. Clairet, R. Sabot, G. Leclert and M. Colin
- *"Edge Localized Modes and fluctuations in the JET SOL region"*
Hidalgo, C., M.A. Pedrosa, B. Gonçalves, C. Silva, R. Balbin, M. Hron, K. Erents, G. Matthews, A. Loarte
- *"On the motional stark effect diagnostic for ITER"*
Lotte, P., A. Malaquias, R. Giannella, M. von Hellermann, P. Nielsen, C. Walker
- *"Pulse height analysis X-ray spectroscopy in the TCV tokamak"*
Madeira, T.I., P. Amorim, B.P. Duval and C.A.F. Varandas
- *"Real time signal analysis with TCV PHA diagnostic"*
Madeira, T.I., A.P. Rodrigues, P. Amorim, B.P. Duval and C.A.F. Varandas
- *"Neoclassical Tearing mode control through sawtooth destabilization in JET"*
Mayoral, M.L., D.F. Howell, O. Sauter, E. Westerhof, B. Alper, R.J. Buttery, T.C. Hender, M.J. Mantsinen, M.F.F. Nave and contributors to the EFDA JET workprogramme

- *"Simulation of the time behaviour of impurities in JET Ar-seeded discharges and its relation with sawteething"*
Mattioli, M., M.E.Puiatti, M.Valisa, I.Coffey, R.Dux, P.Monier-Garbet, M.F.F.Nave, J.Ongena, M.von Hellermann and contributors to the EFDA-JET workprogramme
- *"Study of ELMs on ASDEX Upgrade using reflectometry measurements with high temporal and spatial resolution"*
Nunes, I., G.D. Conway, M.Manso, M.Maraschek, F.Serra, W.Suttrop, the CFN and ASDEX Upgrade teams
- *"Fluctuation-induced turbulent transport and sheared flows close to instability threshold in the TJ-II stellarator"*
Pedrosa, M.A., C. Hidalgo, T. Estrada, B. Gonçalves, E. Ascasibar, I. Pastor, J.A. Jiménez, A. López-Fraguas and the TJ-II team
- *"Effect of micro-instabilities on runaway generation in tokamak disruptions"*
Plyusnin, V.V.
- *"Observations of the onset of the energy quench in ASDEX Upgrade Density Limit Disruptions"*
Salzedas, F., G. Pautasso, I. Nunes, W. Suttrop, M. Maraschek, M.E. Manso and the ASDEX Upgrade Team
- *"Numerical study of spatial and temporal localization of magnetic modes using O-mode reflectometry"*
Silva, F. da, S. Heuraux, M. Manso and S. Hacquin
- **IAE Workshop on ELMs, JET, 24-26 June 2002**
- *"ELM control by enhanced radiation"*
Nave, M. F. F., C. Ingesson, S.Jachmich, Z. Klaus-Dieter, T.C. Jones, K. Lawson, P. Lomas, G. Mathews, J. Ongena and contributors to the EFDA-JET workprogramme
- **14th APS Topical Conference on High Temperature Plasma Diagnostics, Madison, USA 08-11 July, 2002**
- *"Emissive probe measurements of the plasma potential fluctuations in the edge plasma region of the ISTTOK and CASTOR tokamaks"*
Balan, P., J.A.C. Cabral, R. Schrittwieser, H.F.C. Figueiredo, H. Fernandes, C. Ionita, C.A.F. Varandas, J. Adamek, M. Hron, J. Stockel, E. Martinez, M. Tichy and G. van Oost.
- *"A low cost, fully integrated, event-driven, real-time control and data acquisition system for fusion experiments"*
Batista, A. J. N., A. Combo, J. Sousa and C. A. F. Varandas
- *"Improved 20 keV injection system for the heavy ion beam diagnostic of the tokamak ISTTOK"*
Cabral, J.A.C., I.S. Nedzelskiy, A.J. Malaquias, B. Gonçalves, C.A.F. Varandas, I.S. Bondarenko, S.M. Khrebtov, A.D. Komarov, A.L. Kozachok, L.I. Krupnik.
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- **Workshop on Active Control of MHD Stability: Extension of Performance, Columbia University, N.Y., 18-20 Nov., 2002**

- “Control of Edge MHD instabilities in JET”
Nave, M.F.F.

14.1.6. Papers in national conferences

- **13ª Conferência Nacional de Física, Évora, 6-10 Setembro, 2002**

- “E-Lab, laboratórios robotizados interactivos”
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14.2. INERTIAL FUSION ENERGY

14.2.1. Ph.D thesis

- “Investigação teórica e experimental de plasmas em Ar e em misturas N_2 -Ar produzidos por ondas de superfície”
Júlio Vieira Henriques, 2002
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- “Laser-plasma interaction: application to particle acceleration”
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- “Experimental and numerical study of laser-plasma electron accelerators”
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14.2.2. Articles in scientific journals

- “Dust Agglomeration and Gravitational-Like Instabilities in Laboratory and Astrophysical Plasmas”
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