

## **CURRICULUM VITAE**

Vargas-Blanco, Víctor Iván

DATE OF BIRTH: 24/03/1973

E-MAIL: ivargas@itcr.ac.cr

Page-web: <http://www.plasma.ietec.org/>

## **QUALIFICATIONS**

<b>STUDIES</b>	<b>UNIVERSITY</b>	<b>DATE</b>
Bachelor in Physics	University of Costa Rica.	2000
Advanced Studies Diploma in Physics	Complutense University of Madrid, Spain	2003-2005
Ph.D Degree in Plasma Physics and Nuclear Fusion	Complutense University of Madrid, Spain	2005-2008

## **EXPERIENCE IN RESEARCH**

- Head of Plasma Laboratory for Fusion Energy and Applications from Instituto Tecnológico de Costa Rica, Costa Rica. From July 21, 2008 to date.
- Princeton Plasma Physics Laboratory (PPPL), U.S.A. From May 1 to July 29, 2016.
- National Laboratory for Fusion by Magnetic Confinement, EURATOM-CIEMAT Association, Spain. From October 1, 2002 to June 30, 2008.
- Laboratory of Applied Nuclear Physics, School of Physics, University of Costa Rica, Costa Rica. From January 1, 1998 to December 15, 1999.

## **EXPERIENCE IN LOCAL TRANSPORT STUDIES**

- Local heat transport studies in density, rotational transform and ECH power scans in TJ-II Stellarator ECRH discharges.
- Local particle transport studies in density in TJ-II stellarator ECRH discharges.
- Radial electric field and potential studies in TJ-II stellarator ECRH discharges.
- Use of ASTRA transport code (Automated for System Transport Analysis in a Tokamak).
- Use of EIRENE code (Monte Carlo code).

## **EXPERIENCE IN ELECTRON CYCLOTRON EMISSION DIAGNOSTIC**

- Person in charge of the calibration of the Electron Cyclotron Emission diagnostic ECE in TJ-II stellarator, National Laboratory for Fusion by Magnetic Confinement, CIEMAT (period 2004-2005).
- Formation in handling and maintenance of a multichannel electron cyclotron emission radiometry in TJ-II stellarator for the measurement of electron temperature
- Background on basic microwave theory concepts, as well as the waveguide components in the microwave laboratory.

## **EXPERIENCE IN ELECTRON CYCLOTRON RESONANCE HEATING**

- Participation in some of the TJ-II ECRH system operation activities power measurements.
- Calibration of the microwaves diodes placed at the TJ-II vacuum vessel to measure the microwave absorption in the plasmas.
- Knowledge of the system components and the method of measuring the microwave power delivered by the gyrotrons (high power microwave generators), power measurements and gyrotrons conditioning for the TJ-II operation.

## EXPERIENCE IN MAGNETIC CONFINEMENT DEVICES

- Head of design, construction and implementation of the Stellarator of Costa Rica 1 (SCR-1).
- Head of Re-commissioning of the Spherical Tokamak MEDUSA in Costa Rica.

## EXPERIENCE IN COMPUTER SIMULATION CODES FOR PLASMAS

- Use of **Variational Moments Equilibrium Code** (VMEC) and use of **Equilibrium Fitting code** (EFIT).

## COMPUTER LITERACY SKILLS

- Programming in IDL (Interactive Data Language), PV-WAVE and FORTRAN, use UNIX.

## PLASMA COURSES

- Summer University for Plasma Physics, 25-29 September 2006 in Garching, Germany.
- 1st Costa Rican Summer School on Plasma Physics, 20-24 January 2014, San Carlos, Costa Rica.

## ORGANIZED CONFERENCES

- General Chair of 1st Costa Rican Summer School on Plasma Physics 20-24 January 2014, San Carlos, Costa Rica.
- General Chair of 15th Latin American Workshop on Plasma Physics (LAWPP 2014), 27-31 January 2014, San José, Costa Rica.
- General Chair of 21st IAEA Technical Meeting on Research Using Small Fusion Devices (RUSFD), 27-29 January 2014, San José, Costa Rica.
- General Chair of 2nd Workshop on Industrial Applications of Plasma Technology (AITP), 30-31 January 2014, San José, Costa Rica.

## NATIONAL AWARDS

- National Technology Award "Clodomiro Picado Twight" 2016, Government of Costa Rica.

## OTHERS

### Scientific societies

- American Physical Society (APS) member. Member ID: 61183303
- IEEE member. Member ID: 94019957
- IEEE Nuclear and Plasma Sciences Society (NPSS) member.

## PUBLICATIONS AND CONFERENCE CONTRIBUTIONS

### CONFERENCE CONTRIBUTIONS

- **V.I. Vargas**, R. Solano-Piedra, A. Köhn, F. Coto-Vílchez, J. Asenjo, J. Sánchez, Castro, D. López-Rodríguez, M.A. Rojas-Quesada, J. Mora, F. Vílchez-Coto, F. Cerdas, A. Carmona-Cruz, V. Valverde Arredondo, O. Gatica-Valle, J. Fernández-Vega, P. J. Mena,

R. Loaiza-Baldares. **Physics and Engineering of SCR-1 Stellarator**, 21st International Stellarator-Heliotron Workshop (ISHW2017), October 2-6 2017, Kyoto, Japan

- L.A. Araya-Solano, **V.I. Vargas**, J. Mora, A.M. Rojas-Loaiza, J.M. Arias-Brenes, J. F. Rojas, J.I. Monge and N. Piedra-Quesada. **Equilibrium simulation for the magnetic confinement of the Spherical Tokamak MEDUSA-CR**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- J. Asenjo, **V.I. Vargas** and J. Mora. **Improvements of PXI-Based ECRH Control System on SCR-1 Stellarator**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- L. Barillas, J.M. Cubero-Sesin and **V.I. Vargas**. **Hydroxyapatite coatings on polymers using a Low Energy Plasma Spray (LEPS) system**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- F. Coto-Vílchez, **V. I. Vargas**, L. Barillas, J. Sánchez-Castro, F. Vílchez-Coto, F. Cerdas, J. Asenjo, J. Mora, A. Carmona-Cruz, V. Valverde Arredondo, O. Gatica-Valle, J. Fernández-Vega, P. J. Mena and R. Loaiza-Baldares. **Vacuum magnetic flux surface measurements on the SCR-1 Stellarator**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- R. Solano-Piedra, D. López-Rodríguez, A. Köhn, **V.I. Vargas**, M.A. Rojas-Quesada, F. Coto-Vílchez, J. Mora and J. Asenjo. **Microwave heating scenarios using a full wave code on SCR-1 Stellarator**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- J. Mora, **V.I. Vargas**, A.M. Rojas-Loaiza, J.M. Arias-Brenes, J. F. Rojas, J.I. Monge, N. Piedra-Quesada and L.A. Araya-Solano. **First engineering stage of the Spherical Tokamak MEDUSA-CR**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- J. Rodríguez-Rojas, L. Barillas, R. Ching-Baltodano and **V.I. Vargas**. **Low-Temperature Plasma Irradiation to Improve Germination and Growth in Seeds of Coriandrum sativum, Lycopersicon lycopersicum, Phaseolus vulgaris and Raphanus Sativus L**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- J. Sanchez-Castro, L. Barillas, J. Mora and **V.I. Vargas**. **Effectiveness Comparison Between Oxygen and Argon Low Pressure RF Plasma Sterilization, Using a Custom Antenna**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- **V.I. Vargas**, R. Solano-Piedra, C. Otarola, L. Aguirre-Rojas, K. Valladares-Alfaro, F. Sáenz-Castro, J. Mora, J. Asenjo, F. Coto-Vílchez, J. Sánchez-Castro, D. López-Rodríguez. **SCR-2: A Quasi-Toroidally Symmetric Stellarator for Latin America**.16th Latin American Workshop on Plasma Physics (LAWPP 2017), 4-8 September, Mexico City, Mexico.
- R. Solano-Piedra, A. Köhn, **V.I. Vargas**, F. Coto-Vílchez, M.A. Rojas-Quesada, D. López-Rodríguez, J. Sánchez-Castro, J. Asenjo and J. Mora. **First MHD equilibrium characterization and electromagnetic waves interaction on hydrogen plasma in the SCR-1 Stellarator**, 44th European Physical Society Conference on Plasma Physics (EPS), 26 - 30th June 2017, Northern Ireland, UK.
- L. Barillas, J. M. Cubero-Sesin, **V.I. Vargas**. **Plasma sprayed bioactive coatings: a study with bioabsorbable polymers**, 17th International Conference on Plasma Physics and Applications & 1st Workshop on Plasma Coatings for Medical Applications (CPPA 2017), June 15-20, 2017, Magurele, Bucharest, Romania.

- **V.I. Vargas**, J. Mora, C. Otarola, R. Solano-Piedra, J. Asenjo, F. Coto-Vílchez, J. Sanchez-Castro, L.A. Araya-Solano, A.M. Rojas-Loaiza, J.M. Arias-Brenes, J. F. Rojas, J.I. Monge, N. Piedra-Quesada, D. López- Rodríguez, M.A. Rojas-Quesada and L. Barillas. **Engineering overview of the Fusion Research in Costa Rica: SCR-1 Stellarator and Spherical Tokamak MEDUSA-CR**, 27th IEEE Symposium on Fusion Engineering (SOFE), 4–8 June 2017, Shanghai, China.
- L. Barillas, H. Testrich, J. Cubero-Sesin, A. Quade, **V. I. Vargas**, M. Froehlich, K.-D. Weltmann, M. Polak. **Bioactive and Antibacterial Plasma Sprayed Coatings on Polymer Substrates Suitable For Orthopedic and Tissue Engineering Applications**, Oral talk at 44<sup>th</sup> IEEE International Conference on Plasma Science (ICOPS 2017), 21 May - 25 May 2017, Atlantic City, NJ, USA.
- J. Asenjo, **V.I. Vargas** and J. Mora. **Control and data acquisition system for SCR-1 Stellarator**, 11th IAEA Technical Meeting on Control, Data Acquisition and Remote Participation for Fusion Research, 8-12 May 2017, Greifswald, Germany.
- R. Solano-Piedra, **V.I. Vargas**, A. Köhn, F. Coto-Vílchez, J. Sanchez-Castro, D. López-Rodríguez, M.A. Rojas-Quesada, J. Mora and J. Asenjo. **Overview of the SCR-1 Stellarator**, 23rd IAEA Technical Meeting on the Research Using Small Fusion Devices (23rd TM RUSFD), March 29-31 2017, Santiago, Chile.
- **V.I. Vargas**, J. Mora, L.A. Araya-Solano, A.M. Rojas-Loaiza, J.M. Arias-Brenes, J. F. Rojas, J.I. Monge and N. Piedra-Quesada. **Progress on Re-commissioning of the Spherical Tokamak MEDUSA in Costa Rica**, 23rd IAEA Technical Meeting on the Research Using Small Fusion Devices (23rd TM RUSFD), March 29-31 2017, Santiago, Chile
- J. Mora, **V.I. Vargas**, J. Asenjo, L. Barillas, F. Coto-Vílchez, R. Esquivel-S, R. Solano-Piedra, C. Otárola, E. Villalobos, O. Gatica-Valle, J. Castro, A. Carmona-Cruz, D. Morales-Hidalgo, G. Madrigal-Boza, M.G. Campos, P.J. Mena and J. Fernández -Vega, **First Results of the Stellarator of Costa Rica 1 (SCR-1)**, 26th IAEA Fusion Energy Conference (FEC IAEA), 17–22 October 2016, Kyoto, Japan.
- **V.I. Vargas**, J. Mora, L.A. Araya-Solano, A.M. Rojas-Loaiza, J.M. Arias-Brenes, J. F. Rojas, J.I. Monge, A. Canizales, E. Acuña, N. Piedra-Quesada, **Re-commissioning of the Spherical Tokamak MEDUSA in Costa Rica**, 26th IAEA Fusion Energy Conference (FEC IAEA), 17–22 October 2016, Kyoto, Japan.
- L. Barillas, **V.I. Vargas**, M. Rojas-Chaves, M.I. Chaves-Rodriguez, E. Alfaro-Mayorga, D. Méndez, S. J. Petretti, J. Asenjo, J. Mora, I. Porrás-Navarro, I.F. Céspedes-Camacho, **Plasma Medicine Research in Costa Rica: Overview of First Steps**, 6th International Conference on Plasma Medicine (ICPM-6), September 4-9 2016, Bratislava, Slovakia.
- C. Otarola, **V.I. Vargas**, J. Mora, J. Asenjo, L. Barillas, A. Mora y E. Villalobos, **Manufacturing of a small scale Stellarator in Costa Rica**, 29th Symposium on Fusion Technology (SOFT 2016), September 5-9 2016, Prague, Czech Republic.
- L. Barillas, J. Cubero-Sesin, and T. Guillén-Girón, **Plasma Sprayed Hydroxyapatite Coatings on 3D Printed Polymer Substrates for Orthopedic Applications: A Preliminary Study**, International Thermal Spray Conference 2016, May 10-12, 2016, Shanghai, China.
- B. Chine, M.F. Mata, **V.I. Vargas**, **Modeling a DC Plasma Torch with Comsol Multiphysics**, Comsol Conference 2015, 14-16 October 2015, Grenoble, France.
- **V.I. Vargas**, J. Mora, C. Otárola, E. Zamora, J. Asenjo, A. Mora, and E. Villalobos. **Engineering, fabrication, tests and status of the Costa Rican SCR-1 stellarator**, 22nd

IAEA Technical Meeting (TM) on Research Using Small Fusion Devices (22<sup>nd</sup> TM RUSFD), October 12-14 2015, Prague, Czech Republic.

- F. Rojas, C. Vega, **V.I. Vargas**, M.F. Mata, B. Chine and L. Barillas. **Plasma gasification in Costa Rica: Analysis and research of technology**, 2015 Gasification Technologies Conference (GTC 2015), 11-14 October, Colorado Springs, Colorado, USA
- **V.I. Vargas**, J. Mora, C. Otárola, E. Zamora, J. Asenjo, A. Mora, and E. Villalobos. **Construction, Commissioning and first Results of the Costa Rican Stellarator SCR-1**, 20th International Stellarator-Heliotron Workshop (ISHW), October 5-9 2015, Greifswald, Germany.
- **V.I. Vargas**, J. Mora, C. Otárola, E. Zamora, J. Asenjo, A. Mora, and E. Villalobos. **Progress on small modular stellarator SCR-1**, 42nd European Physical Society Conference on Plasma Physics (EPS 2015), 22<sup>nd</sup> – 26<sup>th</sup> June 2015, Lisbon, Portugal. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- **V.I. Vargas**, J. Mora, C. Otárola, E. Zamora, J. Asenjo, A. Mora, and E. Villalobos. **Implementation of Stellarator of Costa Rica 1 SCR-1**, 26th IEEE Symposium on Fusion Engineering (SOFE), May 31-June 4 2015, Austin, Texas. USA. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- **V.I. Vargas**, J. Mora, C. Otárola, J. Asenjo, E. Zamora, D. Pérez, J. Gonzalez-Gomez, C. Piedras and SCR-1 Team. **Constructing a small modular Stellarator in Latin America**, 56th Annual Meeting of the APS Division of Plasma Physics, 27-31th October 2014, New Orleans, Louisiana USA.
- **V.I. Vargas**, J. Mora, C. Otárola, J. Asenjo, E. Zamora and C. Piedra. **Constructing a small modular Stellarator in Latin America**. 17th International Congress on Plasma Physics (ICPP 2014), 15-19th September 2014, Lisbon, Portugal.
- J. Mora, **V. I. Vargas**, C. Otárola, C. Piedra, W. Jimenez, L. Esquivel, R. Esquivel, K. Sanchez, J. Gonzales, J. Asenjo and L. Fonseca. **Engineering of the stellarator of Costa Rica: SCR-1**. 15th Latin American Workshop on Plasma Physics (LAWPP 2014), 27-31 January, San José, Costa Rica.
- C. Ribeiro, J. González, A. J. Balma, D. H. Fallas, J. S. Arbustini, **V. I. Vargas**, J. Asenjo, J. Mora, E. Zamora, S. Guadamuz-Brenes, J. J. E. Herrera-Velázquez, E. Chávez-Alarcón. **Overview of the Spherical Tokamak MEDUSA-CR**, 15th Latin American Workshop on Plasma Physics (LAWPP), 27-31 January 2014, San José, Costa Rica.
- **V.I. Vargas**, J. Mora, J. Asenjo, E. Zamora, C. Otárola, L. Barillas, J. Carvajal-Godínez, J. González-Gómez, C. Soto-Soto and C. Piedras. **Constructing a small modular stellarator in Latin America**. 15th Latin American Workshop on Plasma Physics (LAWPP 2014), 27-31 January, San José, Costa Rica.
- Asenjo, J., Mora, J., Vargas, A., Brenes, L., Montiel, R., Arrieta, J., & **Vargas, V.I.** **Atmospheric-Pressure Non-thermal Plasma Jet for Biomedical and Industrial Applications**. 15th Latin American Workshop on Plasma Physics (LAWPP 2014), 27-31 January, San José, Costa Rica.
- J. Arrieta, J. Asenjo, & **I. Vargas**, Y. Solis. **Atmospheric-Pressure Non-Thermal Plasma-Jet Effects on PS and PE Surfaces**. 15th Latin American Workshop on Plasma Physics (LAWPP 2014), 27-31 January, San José, Costa Rica.
- G. Segura, P. Guzmán, P. Zuñiga, S. Chaves, Y. Barrantes, G. Navarro, J. Asenjo, S. Guadamuz, **V.I. Vargas** & J. Chavez. **Copper Deposition on Fabrics by RF Plasma**

**Sputtering for Medical Applications.** 15th Latin American Workshop on Plasma Physics (LAWPP 2014), 27-31 January, San José, Costa Rica.

- **V.I. Vargas**, J. Mora, J. Asenjo, E. Zamora, C. Otárola, J. Carvajal-Godínez, J. González-Gómez, C. Soto-Soto, C. Piedras, L. Barillas and C. Ribeiro. **Engineering issues to the Stellarator of Costa Rica 1**, in Proceedings of the 25th Symposium on Fusion Engineering, June 10-14, 2013, San Francisco, California, USA. [En la base de datos SCOPUS \(www.scopus.com\)](#)
- C. Ribeiro, **V. I. Vargas**, J. J. E. Herrera, and E. Chavez, **Equilibrium features of bean-shaped spherical tokamak plasmas with an ergodic limiter**, 25th Symposium on Fusion Engineering, San Francisco, 10-14 June 2013. [En la base de datos SCOPUS \(www.scopus.com\)](#)
- Ribeiro C. **et al.**, **Re-commissioning the Spherical Tokamak MEDUSA in Costa Rica**, Second Research Coordination Meeting of the Coordinated Research Project on Utilization of a Network of Small Magnetic Confinement Fusion Devices for Mainstream Fusion Research, IAEA, Vienna, Austria, 19-23 March 2013.
- C. Ribeiro, **V.I. Vargas**, J.Mora, E. Zamora, J. Asenjo, L. Rivas, S. Guadamuz, **The Ultra-Low Aspect Ratio Stellarator SCR-1**. 54th Annual Meeting of the APS Division of Plasma Physics, October 29 - November 2, 2012 • Providence, Rhode Island, USA.
- CELSO RIBEIRO, **IVAN VARGAS**, SAUL GUADAMUZ, JAIME MORA, JOSE ANSEJO, ESTEBAN ZAMORA, JULIO HERRERA, ESTEBAN CHAVES, CARLOS ROMERO. **The Spherical Tokamak MEDUSA for Costa Rica**. 54rd American Physical Society Meeting, Plasma Physics Division, Providence, Rhode Island, 29 October to 02 November 2012.
- **V. I. Vargas**, S. Guadamuz, L. Rivas, J. Asenjo and J. Mora. **Research on Plasma Physics and Its Applications in Developing Countries: the Case of the plasma Physics Group at Costa Rica Institute of Technology**. Joint ICTP-IAEA College on Plasma Physics 01-12 October 2012, Trieste, Italy.
- J. Mora, **V.I. Vargas**, L.F. Villegas, L. Barillas, J.I. Monge, and L. Rivas. **Major Issues in the Design and Construction of the Stellarator of Costa Rica: SCR-1**. 14th Latin American Workshop on Plasma Physics (LAWPP 2011), 20-25 November 2011, Mar del Plata, Argentina. [En la base de datos SCOPUS \(www.scopus.com\)](#)
- **V.I. Vargas**, J. Asenjo, A. Sura, S. García, F. Cerdas, D. Chacón, J. Chacón, S. Fatjó, J. Jiménez, L. Rivas and B. Stradi. **Simulations for designing of a Small Modular Stellarator for Magnetic Confinement of Plasma**. 14th Latin American Workshop on Plasma Physics (LAWPP 2011), 20-25 November 2011, Mar del Plata, Argentina.
- Barillas. L., **Vargas. V.I.**, Rivas. L., Asenjo. J., Carranza. J. M., Cascante. Y., Cerdas. F., Gutiérrez. R, Monge. J.I., Mora. J., Morera. J.A., Peraza. H., Rojas. C., Rozen. D., Sáenz. F., Sánchez. G., Sandoval. M., Solano. G., Trimiño. H., Umaña. J.G., Villegas. L.F. **Design and Construction of the First Latin American Small Modular Stellarator for Magnetic Confinement of Plasma: SCR-1**. 20th IAEA Technical Meeting on Research Using Small Fusion Devices, 23-25 November 2011, IAEA, Vienna, Austria.
- H. Trimiño, **V.I. Vargas**, S. Tallents, L. Rivas, D. Chacon, J. Chacon, S. Fatjo, J. Jimenez, L.F. Villegas, J.Mora, J. Asenjo, J.M. Carranza, F. Cerdas, L. Barillas, J.I. Monge, J.Morera, H. Peraza, C. Rojas, G. Sánchez, M. Sandoval, J. Umaña, R. Gutiérrez, G. Solano. **Design of an ECH system for a small modular stellarator**, in Proceedings of the 38th International Conference on Plasma Science and 24<sup>th</sup> Symposium on Fusion Engineering, June 26-30, 2011, Chicago, Illinois, USA. [En la base de datos SCOPUS \(www.scopus.com\)](#)

- Laura Barillas, **V. Iván Vargas**, Asdrúval Alpízar, José Asenjo, José M. Carranza, Yorlenny Cascante, Fabián Cerdas, Ricardo Gutiérrez, Javier I. Monge, Jaime Mora, Julio Andrés Morera, Hugo Peraza, Cristian Rojas, Daniel Rozen, Federico Sáenz, Glenn Sánchez, Magaly Sandoval, Gabriela Solano, Humberto Trimiño, Juan G. Umaña, Luis F. Villegas. **An Engineering Approach to the Design and Construction of a Small Modular Stellarator for Magnetic Confinement of Plasma: SCR-1**, in Proceedings of the 19th International Conference on Nuclear Engineering, May 16-19, 2011, Chiba, Japan.
- D López-Bruna, JA Romero, A López-Fraguas, JM Reynolds, E Blanco, T Estrada, MA Ochando, R Jiménez-Gómez, O Bondarenko, D Tafalla, J Herranz, E Ascasibar, **V.I. Vargas**, TJ-II Team. **Magnetic Resonances in ECR-Heated Plasmas of the TJ-II Helic**. Contributions to Plasma Physics, 50, No. 6-7, 600 – 604, 1 August 2010. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- **V. I. Vargas**, S. Tallents, **Heating power scan in ECH plasmas of the TJ-II Stellarator under Boron and Lithium wall conditions**, 15th International Congress on Plasma Physics (ICPP 2010) in combination with the 13th Latin American Workshop on Plasma Physics (LAWPP 2010), Santiago, capital of Chile, 8-13 August, 2010.
- L. Barillas, **V.I. Vargas**, A. Alpizar, J. Asenjo, J.M. Carranza, F. Cerdas, A. Chávez, R. Gutiérrez, J.I. Monge, J. Mora, J. Morera, H. Peraza, V. Queral, C. Rojas, D. Rozen, F. Saenz, G. Sánchez, M. Sandoval, H. Trimiño, J. Umaña, L.F. Villegas. **SCR-1: Design and Construction of a Small Modular Stellarator for Magnetic Confinement of Plasma**, in Proceedings of the 15th International Congress on Plasma Physics (ICPP 2010) in combination with the 13th Latin American Workshop on Plasma Physics (LAWPP 2010), Santiago, capital of Chile, August, edited by IOP Publishing, Journal of Physics: Conference Series, 8-13 August, 2010.
- E. Ascasibar, T. Estrada, M. Liniers, M. Ochando, F. L. Tabares, D. Tafalla, J. Guasp, R. Jimenez-Gomez, F. Castejon, D. Lopez-Bruna, A. Lopez-Fraguas, I. Pastor, A. Cappa, **V.I. Vargas**. **Global confinement studies in NBI plasmas of the TJ-II stellarator under lithium-coated wall conditions**. 36th EPS Conference on Plasma Physics, 2009.
- D. López-Bruna, J. A. Romero, A. López-Fraguas, J. M. Reynolds, E. Blanco, T. Estrada, D. Tafalla, M. A. Ochando, F. Medina, R. Jiménez, E. Ascasibar, **V. I. Vargas**, TJ-II Team. **Local effects of magnetic resonances in ECRH plasmas of the TJ-II Helic**, 17th International Stellarator / Heliotron Workshop, Princeton, New Jersey USA, 12-16 October, (2009).
- J.J. Martinell, D.López-Bruna, F. Castejón, **V.I. Vargas**, C. Gutiérrez-Tapia and A. Ortiz-Tapia, **Radial electric field computations in TJ-II and comparison with HIBP measurements**, 36th EPS Conference on Plasma Physics, Sofia, Bulgaria, June 29-July 3, European Physical Society, P4.184 (2009). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- **V.I. Vargas**, D.López-Bruna, J. García, A. Fernández, A. Cappa, J. Herranz, F. Castejón, A.V. Melnikov. **ECH power dependence of electron heat diffusion in ECH plasmas of the TJ-II stellarator**. 35th EPS Conference on Plasma Physics, 9-13 June, European Physical Society, Crete, Greece, P5.018 (2008). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- D. López-Bruna, T. Estrada, F. Medina, E. de la Luna, E. Ascasibar, F. Castejón, **V. I. Vargas**, **Effect of magnetic resonances in the effective electron heat transport of TJ-II ECH plasmas**, 35th EPS Conference on Plasma Physics, , 9-13 June, European Physical Society, Crete, Greece, P2.030 (2008). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)

- D. López-Bruna, T. Estrada, F. Medina, J. Herranz, **V.I. Vargas**, A. Baciero, E. Ascasíbar, J. A. Romero, F. Castejón. **Modification of transport due to low order rationals of the rotational transform in ECH plasmas of the TJ-II Helic**. 16<sup>th</sup> International Stellarator/Heliotron Workshop, October 15-19, Ceratopia Toki, Toki, Japan, P-1.016 (2007).
- E. Ascasíbar, D. López-Bruna, F. Castejón, **V.I. Vargas**, V. Tribaldos, H. Maassberg, C.D. Beidler, R. Brakel, A. Dinklage J. Geiger, J.H. Harris, A. Kus T. Mizuuchi, S. Murakami, S. Okamura, R. Preuss, F. Sano, U. Stroth, Y. Suzuki, J. Talmadge, K.Y. Watanabe, H. Yamada, M. Yokoyama. **Effect of rotational transform and magnetic shear on confinement of stellarators**. 16th International Stellarator/Heliotron Workshop, October 15-19, Ceratopia Toki, Toki, Japan, I-01 (2007).
- D.Lopez-Bruna, J.M.Reynolds, **V.I.Vargas**, J.Guasp, F.Castejon. **Particle transport in ECH plasmas of the TJ-II stellarator**. 12th European Fusion Theory Conference, 24-27 September 2007, Madrid.
- **V.I. Vargas**, D.López-Bruna, J.M. Reynolds, T. Estrada, J.L Velasco, J. Guasp. **Electron diffusivity profiles in ECH plasmas of the TJ-II Helic**, 34th EPS Conference on Plasma Physics, Warsaw, Poland, July 2 - 6, P-1.120, 2007. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- D. López Bruna, A. Alonso, E. Blanco, I. Calvo, T. Estrada, J. Herranz, C. Hidalgo, L. Krupnik, A. Melnikov, B. van Milligen, M.A. Pedrosa, **V.I. Vargas** and the TJ-II Team. **Experimental intertwinement of radial electric fields, fluctuations and transport with density in TJ-II Team**. 11-th International Conference and School on Plasma Physics and Controlled Fusion & 2-nd Alushta International Workshop on the Role of Electric Fields in Plasma Confinement in Stellarators and Tokamaks, Alushta (Crimea), Ukraine, September 11-16, 2006.
- **V.I. Vargas**, D.López-Bruna, J. Herranz, F. Castejón. **Dependencies of electron heat diffusion in TJ-II ECRH plasmas**, 33rd EPS Conference on Plasma Phys. Rome, 19 - 23 June 2006 ECA Vol.30I, P-1.134 (2006). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- D. López-Bruna **and the TJ-II Team**. **Overview of TJ-II experiments**. XI Latin American Workshop on Plasma Physics, Mexico D.F, 5-9 December 2005, AIP Conference Proceedings, Subseries: Plasma Physics, Vol. 875, 357-362 (2005).
- J.M Carmona, K. J. McCarthy, J.M Fontdecaba, S. Petrov, R. Balbín, **V. I. Vargas** and B. Zurro **A study of central impurity ion temperatures during ECR and NBI heating phases in TJ-II stellarator plasmas**. 15th Stellarator Workshop, Madrid, 3-7 October, P3-07, 2005.
- **V. I. Vargas**, D López-Bruna, T Estrada, E Ascasíbar, E de la Luna, M Ochando, F Medina, J Herranz, A Fernández, E Sánchez. **Local transport in density and rotational transform scans in TJ-II ECRH discharges**, 15th Stellarator Workshop, Madrid, 3-7 October, P3-20, 2005.
- I. García-Cortés, F.L. Tabarés, D. Tafalla, R. Balbín, J.M. Carmona, A. Hidalgo, J.A.Ferreira, A. López-Fraguas, K. McCarthy, **V.I. Vargas** and the TJ-II team. **The quest for a divertor effect in TJ-II**, 15th Stellarator Workshop, Madrid, 3-7 October, P3-09 (2005).
- F.L.Tabarés, I. García-Cortés, D. Tafalla, J.A. Ferreira, A.Hidalgo, V. Tribaldos, R. Balbín, J.M.Carmona, I. Pastor, KJ. McCarthy, T. Estrada, E. Ascasíbar and **V.I. Vargas**, **Impact of gas puffing location on density control and plasma parameters in TJ-II**, 15th Stellarator Workshop, Madrid, 3-7 October, P3-10 (2005).



- **V. I. Vargas**, D López-Bruna, T Estrada, E Ascasíbar, E de la Luna, M Ochando, F Medina, J Herranz, A Fernández, E Sánchez. **Local transport in density and rotational transform scans in TJ-II ECRH discharges**, 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-5.032 (2005). [En la base de datos SCOPUS \(www.scopus.com\)](#)
- R. Balbín, S. Petrov, J.M. Fontdecaba, K. J. McCarthy, **V.I. Vargas**, J.M. Carmona, J. Guasp, D. Makarin. **First Measurements of High-Energy Charge-Exchange Neutrals Using Compact Neutral Particle Analyser in TJ-II Stellarator**. 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, D-5.001 (2005). [En la base de datos SCOPUS \(www.scopus.com\)](#)
- F.L. Tabarés, I. García-Cortés, D. Tafalla, E. de la Cal, J.A. Ferreira, A. Hidalgo, J.M. Carmona, K.J. McCarthy and **V I. Vargas**. **Injection of hydrogen and ethylene at the plasma edge of TJ-II: A comparative study**. 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-4.008 (2005). [En la base de datos SCOPUS \(www.scopus.com\)](#)
- L.Krupnik, A.Alonso, A.Chmyga,, N.Dreval, L.Eliseev, T.Estrada, C.Hidalgo, A.Komarov, A.Kozachok, A.Melnikov, I.Nedzelskiy, J.L.de Pablos, L.A.Pereira, V.Tereshin, **I.Vargas**. **Electron internal transport barriers, rationals and fluctuations in the stellarator TJ-II**. 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-5.028 (2005). [En la base de datos SCOPUS \(www.scopus.com\)](#)

#### INTERNAL REPORTS

- **V.I. Vargas**, J L Velasco, D López-Bruna, J M Reynolds, J Guasp, J A Ferreira, J Herranz, D Tafalla, T Estrada, F Castejón, F Medina, A Salas, M A Ochando and the TJ-II Team. **Density dependence of particle transport in ECH plasmas of the TJ-II stellarator**. Informe Técnico Asociación EURATOM-CIEMAT, CIEMAT, nº 1162 (2009).
- D López-Bruna, JA Romero, A López-Fraguas, E Ascasíbar, R Jiménez-Gómez, M Ochando, J Herranz, F Medina, MA Pedrosa, T Estrada, T Kalhoff, F Castejón, **VI Vargas**, L Pacios, A de la Peña, F Lapayese, J Alonso, R Carrasco. **Footprint of the Magnetic Configuration in ECH Plasmas of the TJ-II Flexible Helic**. Laboratorio Nacional de Fusión, Asociación Euratom-Ciemat, Madrid, Spain, INIS-XA--08N0893, 2008.
- **V.I. Vargas**, D.López-Bruna, T. Estrada, J. Guasp J. M. Reynolds, J.L. Velasco, J. Herranz, **Transporte de partículas en plasmas ECRH del TJ-II**, Internal Report Asociación EURATOM-CIEMAT, nº 1129 (2007).
- **V.I. Vargas**, D.López-Bruna, J. Herranz, F. Castejón., **Difusión térmica electrónica experimental en plasmas ECRH del TJ-II**, Internal Report Asociación EURATOM-CIEMAT, CIEMAT nº 1079, 2006.

#### PEER-REVIEWED ARTICLES

- L. Barillas, H. Testrich, J. Cubero-Sesin, A. Quade, V. I. Vargas, M. Froehlich, K.-D. Weltmann, M. Polak. **Bioactive and Antibacterial Plasma Sprayed Coatings on Polymer Substrates Suitable For Orthopedic and Tissue Engineering Applications**. To be submitted for publication in "IEEE Transactions on Radiation and Plasma Medical Sciences Special Issue" (Deadline 31 August 2017).
- L. Barillas, J. M. Cubero-Sesin, V.I. Vargas. **Plasma spraying on polymers: a study on bioactive and antibacterial coatings**. To be submitted for publication in "Romanian Journal of Physics" (Deadline 17 July 2017).

- J. Asenjo, V.I. Vargas and J. Mora. **Control and data acquisition system for SCR-1 Stellarator**, Sometido a publicación en la revista "Fusion Engineering and Design", 2017 (indexada en Web of Science y SCOPUS).
- L. Barillas, J. Asenjo, E. Alfaro-Mayorga, M. I. Chaves-Rodriguez, S. J. Petretti, D. Méndez, J. Mora, I. Porras-Navarro, M. Rojas-Chaves, V. I. Vargas, I. F. Céspedes-Camacho. **Plasma Medicine Research in Costa Rica: Overview of First Steps**. Accepted for publication in "Plasma Medicine Journal" (2017).
- J. Arrieta, J. Asenjo, & I. Vargas, Y. Solis. **Atmospheric-Pressure Non-thermal Plasma-JET effects on PS and PE surfaces**. Journal of Physics: Conference Series, 591, 012050. (2015). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- Asenjo, J., Mora, J., Vargas, A., Brenes, L., Montiel, R., Arrieta, J., & Vargas, VI. **Atmospheric-Pressure Non-Thermal Plasma Jet for biomedical and industrial applications**. Journal of Physics: Conference Series, 591, 012049. (2015). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- López-Bruna, D., Vargas, V. I., & Romero, J. A. **Are magnetic resonances practical transport controllers in fusion plasmas? The TJ-II experience**. Journal of Physics: Conference Series, 591, 012013. (2015). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- J. Mora, V. I. Vargas, C. Otarola, C. Piedra, W. Jimenez, L. Esquivel, R. Esquivel, K. Sanchez, J. Gonzalez, J. Asenjo and L. Fonseca. **Engineering of the Stellarator of Costa Rica: SCR-1**. Journal of Physics: Conference Series, 591, 012017. (2015). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- Segura, G., Guzmán, P., Zuñiga, P., Chaves, S., Barrantes, Y., Navarro, G., Vargas, V.I., Chaves, J. **Copper deposition on fabrics by rf plasma sputtering for medical applications**. Journal of Physics: Conference Series, 591, 012046. (2015). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- V.I. Vargas, J. Mora, J. Asenjo, E. Zamora, C. Otárola, L. Barillas, J. Carvajal-Godínez, J. González-Gómez, C. Soto-Soto and C. Piedras. **Constructing a small modular stellarator in Latin America**. Journal of Physics: Conference Series, 591, 012016. (2015). [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- S Tallents, D López-Bruna, J L Velasco, M A Ochando, B Ph Van Milligen, V I Vargas, J J Martinell, D Tafalla, J M Fontdecaba, J Herranz, E Blanco, F L Tabarés, T Estrada, I Pastor and The TJ-II Team. **Transport analysis in an electron cyclotron heating power scan of TJ-II plasmas**, Plasma Phys. Control. Fusion 56 (2014) 075024. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- L Barillas, VI Vargas, A Alpizar, J Asenjo, JM Carranza, F Cerdas, R Gutiérrez, JI Monge, J Mora, J Morera, H Peraza, V Queral, C Rojas, D Rozen, F Saenz, G Sánchez, M Sandoval, H Trimiño, J Umaña, LF Villegas. **SCR-1: Design and Construction of a Small Modular Stellarator for Magnetic Confinement of Plasma**. Journal of Physics: Conference Series 511 (2014) 012037. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- J Mora, VI Vargas, LF Villegas, L Barillas, JI Monge, L Rivas. **Major issues in the design and construction of the stellarator of Costa Rica: SCR-1**. Conference Series 370 (2012) 012066.
- J. Sanchez, M. Acedo, A. Alonso, J. Alonso, P. Alvarez, E. Ascasibar, A. Baciero, R. Balbin, L. Barrera, E. Blanco, J. Botija, A. de Bustos, E. de la Cal, I. Calvo, A. Cappa, J.M. Carmona, D. Carralero, R. Carrasco, B.A. Carreras, F. Castejon, R. Castro, G. Catalan, A.A. Chmyga, M. Chamorro, L. Eliseev, L. Esteban, T. Estrada, A. Fernandez, R. Fernandez-Gavilan, J.A. Ferreira, J.M. Fontdecaba, C. Fuentes, L. Garcia, I. Garcia-

- Cortes, R. Garcia-Gomez, J.M. Garcia-Regaña, J. Guasp, L. Guimaraes, T. Happel, J. Hernanz, J. Herranz, C. Hidalgo, J.A. Jimenez, A. Jimenez-Denche, R. Jimenez-Gomez, D. Jimenez-Rey, I. Kirpichev, A.D. Komarov, A.S. Kozachok, L. Krupnik, F. Lapayese, M. Liniers, D. Lopez-Bruna, A. Lopez-Fraguas, J. Lopez-Razola, A. Lopez-Sanchez, S. Lysenko, G. Marcon, F. Martin, V. Maurin, K.J. McCarthy, F. Medina, M. Medrano, A.V. Melnikov, P. Mendez, B. van Milligen, E. Mirones, I.S. Nedzelskiy, M. Ochando, J. Olivares, J.L. de Pablos, L. Pacios, I. Pastor, M.A. Pedrosa, A. de la Peña, A. Pereira, G. Perez, D. Perez-Risco, A. Petrov, S. Petrov, A. Portas, D. Pretty, D. Rapisarda, G. Ratta, J.M. Reynolds, E. Rincon, L. Rios, C. Rodriguez, J.A. Romero, A. Ros, A. Salas, M. Sanchez, E. Sanchez, E. Sanchez-Sarabia, K. Sarkisian, J.A. Sebastian, C. Silva, S. Schchepetov, N. Skvortsova, E.R. Solano, A. Soleto, F. Tabares, D. Tafalla, A. Tarancon, Yu. Tashev, J. Tera, A. Tolkachev, V. Tribaldos, **V.I. Vargas**, J. Vega, G. Velasco, J.L. Velasco, M. Weber, G. Wolfers and B. Zurro. **Confinement transitions in TJ-II under Li-coated wall conditions**, Nucl. Fusion 49, 1 October (2009) 104018. [En la base de datos SCOPUS \(www.scopus.com\)](#)
- Boudewijn Ph. VAN MILLIGEN, Raúl SANCHEZ, Victor TRIBALDOS and **Victor I. VARGAS**. **Quantifying profile stiffness**, Plasma and Fusion Research 3 (2008) S1070.
  - Enrique ASCASIBAR, Daniel LOPEZ-BRUNA, Francisco CASTEJON, **Victor I. VARGAS**, Victor TRIBALDOS, Henning MAASSBERG, Craig D. BEIDLER, Rudolf BRAKEL, Andreas DINKLAGE, Joachim GEIGER, Jeffrey H. HARRIS, Andreas KUS, Tohru MIZUUCHI, Sadayoshi MURAKAMI, Shoichi OKAMURA, Roland PREUSS, Fumimichi SANO, Ulrich STROTH, Yasuhiro SUZUKI, Joseph TALMADGE, Yuri TURKIN, Kiyomasa Y. WATANABE, Hiroshi YAMADA and Masayuki YOKOYAMA. **Effect of rotational transform and magnetic shear on confinement of stellarators**, Plasma and Fusion Research 3 (2008) S1004.
  - D. Lopez-Bruna, T. Estrada, F. Medina, E. de la Luna, J. A. Romero, E. Ascasibar, F. Castejon and **V. I. Vargas**. **Tracking magnetic resonances in the effective electron heat diffusivity of ECH plasmas of the TJ-II Helic**. Europhysics Letters 82 (2008) 65002. [En la base de datos SCOPUS \(www.scopus.com\)](#)
  - J. Sánchez, M. Acedo, A. Alonso, J. Alonso, P. Alvarez, F. de Aragón, E. Ascasibar, A. Baciero, R. Balbín, L. Barrera, E. Blanco, J. Botija, B. Brañas, E. de la Cal, I. Calvo, A. Cappa, J.A. Carmona, B.A. Carreras, R. Carrasco, F. Castejón, G. Catalán, A.A. Chmyga, N.B. Dreval, M. Chamorro, S. Eguilior, J. Encabo, L. Eliseev, T. Estrada, A. Fernández, R. Fernández, J.A. Ferreira, J.M. Fontdecaba, C. Fuentes, J. de la Gama, A. García, L. García, I. García-Cortés, J.M. García-Regaña, B. Gonçalves, J. Guasp, J. Herranz, A. Hidalgo, C. Hidalgo, R. Jiménez-Gómez, J.A. Jiménez, D. Jiménez, I. Kirpichev, A.D. Komarov, A.S. Kozachok, L. Krupnik, F. Lapayese, M. Liniers, D. López-Bruna, A. López-Fraguas, J. López-Rázola, A. López-Sánchez, E. de la Luna, G. Marcon, F. Martín, L. Martínez-Fresno, K.J. McCarthy, F. Medina, M. Medrano, A.V. Melnikov, P. Méndez, E. Mirones, B. van Milligen, I.S. Nedzelskiy, M. Ochando, J. Olivares, R. Orozco, P. Ortiz, J.L. de Pablos, L. Pacios, I. Pastor, M.A. Pedrosa, A. de la Peña, A. Pereira, D. Pérez-Risco, A. Petrov, S. Petrov, A. Portas, D. Rapisarda, L. Ríos, C. Rodríguez, L. Rodríguez-Rodrigo, E. Rodríguez-Solano, J. Romero, A. Ros, A. Salas, E. Sánchez, M. Sánchez, E. Sánchez-Sarabia, X. Sarasola, K. Sarkisian, C. Silva, S. Schchepetov, N. Skvortsova, A. Soleto, F. Tabarés, D. Tafalla, J. Tera, A. Tolkachev, V. Tribaldos, **V.I. Vargas**, J. Vega, G. Velasco, M. Weber, G. Wolfers, S.J. Zweben and B. Zurro. **Overview of TJ-II experiments**. Nucl. Fusion 47 No 10 (October 2007) S677-S685. [En la base de datos SCOPUS \(www.scopus.com\)](#)
  - **V.I. Vargas**, D. López-Bruna, J. Herranz, F. Castejón and the TJ-II Team. **Experimental electron heat diffusion in ECH plasmas of the TJ-II stellarator**, Nucl. Fusion 47 No 9 (September 2007) 1367-1375. [En la base de datos SCOPUS \(www.scopus.com\)](#)

- García-Cortés, F. L. Tabarés, D. Tafalla, R. Balbín, J. M. Carmona, A. Hidalgo, J. A. Ferreira, A. López-Fraguas, K. J. McCarthy, **V. I. Vargas**, TJ-II Team. **The Quest for a Divertor Effect in TJ-II**, Fusion Science and Technology, 50, No 2, August 2006, 307-312. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- T Estrada, A Alonso, A A Chmyga, N Dreval, L Eliseev, C Hidalgo, A D Komarov, A S Kozachok, L Krupnik, A V Melnikov, I S Nedzelskiy, J L de Pablos, L A Pereira, Yu Tashev, V Tereshin and **V.I Vargas**, **Electron internal transport barriers, rationals and quasi-coherent oscillations in the stellarator TJ-II**, Plasma Phys. Control. Fusion 47 No 11 (November 2005) L57-L63. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)
- C. Hidalgo, C. Alejaldre, A. Alonso, J. Alonso, L. Almoguera, F. de Aragón, E. Ascasíbar, A. Baciero, R. Balbín, E. Blanco, J. Botija, B. Brañas, A. Cappa, J.A. Carmona, R. Carrasco, F. Castejón, J.R. Cepero, A.A. Chmyga, J. Doncel, N.B. Dreval, S. Eguillor, L. Eliseev, T. Estrada, J.A. Ferreira, A. Fernández, J.M. Fontdecaba, C. Fuentes, A. García, I. García-Cortés, B. Gonçalves, J. Guasp, J. Herranz, A. Hidalgo, R. Jiménez, J.A. Jiménez, D. Jiménez-Rey, I. Kirpichev, S.M. Khrebtov, A.D. Komarov, A.S. Kozachok, L. Krupnik, F. Lapayese, M. Liniers, D. López-Bruna, A. López-Fraguas, J. López-Rázola, A. López-Sánchez, E. de la Luna, G. Marcon, R. Martín, K.J. McCarthy, F. Medina, M. Medrano, A.V. Melnikov, P. Méndez, B. van Milligen, I.S. Nedzelskiy, M. Ochando, O. Orozco, J.L. de Pablos, L. Pacios, I. Pastor, M.A. Pedrosa, A. de la Peña, A. Pereira, A. Petrov, S. Petrov, A. Portas, D. Rapisarda, L. Rodríguez-Rodrigo, E. Rodríguez-Solano, J. Romero, A. Salas, E. Sánchez, J. Sánchez, M. Sánchez, K. Sarksian, C. Silva, S. Schchepetov, N. Skvortsova, F. Tabarés, D. Tafalla, A. Tolkachev, V. Tribaldos, **I. Vargas**, J. Vega, G. Wolfers and B. Zurro, **Overview of TJ-II experiments**, Nucl. Fusion 45 No 10 (October 2005) S266-S275. [En la base de datos SCOPUS \(www.scopus.com\)](http://www.scopus.com)