

DEPARTAMENTO DE FISICA

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Actividades de investigación

Tesis Doctorales

- Contribución a la solución del problema inverso en la detección remota de gases y partículas mediante radiometría espectral y de imagen en el infrarrojo
Autores: CORTES, F.
Director/Codirectores: LOPEZ, F.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2016
- Electromagnetic properties of edge turbulence in fusion plasma devices
Autores: LIU, B.
Director/Codirectores: MARTIN, J. R. ; HIDALGO, C.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2016
- Identification of Coherent Magneto-Hydrodynamic Modes and Transport in Plasmas of the TJ-II Helic
Autores: SUN, B.
Director/Codirectores: TRIBALDOS, V.; LOPEZ, D.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2016
- Teledetección de gases mediante imagen hiperespectral por transformada de Fourier en el infrarrojo medio. Una contribución al problema de la cuantificación y la reducción de la dimensionalidad
Autores: RODRIGUEZ, M.A.
Director/Codirectores: MELENDEZ, J. ; SANCHEZ PENA, J.M.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2016
- Three-dimensional peeling-ballooning theory in magnetic fusion devices
Autores: WEYENS, T.
Director/Codirectores: GARCIA, L.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2016

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas internacionales

- ALCUSON, J.A.; REYNOLDS, J.M.; BUSTOS, A.D.; SANCHEZ, R. ; TRIBALDOS, V.; XANTHOPOULOS, P.; GOERLER, T.; NEWMAN, D.E.
Quasi-symmetry and the nature of radial turbulent transport in quasi-poloidal stellarators, *Physics of plasmas*, Vol. 23, Núm. 10, 2016, ESTADOS UNIDOS DE AMERICA.
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Effect of the milling atmosphere on the microstructure and mechanical properties of a ODS Fe-14Cr model alloy, *Materials science and engineering.A, Structural materials: properties, microstructure and processing*, Vol. 671, 2016, pp. 264-274, HOLANDA - PAISES BAJOS.
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Implementation of 2D Domain Decomposition in the UCAN Gyrokinetic Particle-in-Cell Code and Resulting Performance of UCAN2, *Communications In Computational Physics*, Vol. 19, Núm. 1, 2016, pp. 205-225, CHINA.
- GARCIA, L. ; OCHANDO, M.A.; CARRERAS, B.A.; CARRALERO, D.; HIDALGO, C.; VAN MILLIGEN, B.P.
Effect of fast electrons on the stability of resistive interchange modes in the TJ-II stellarator, *Physics of plasmas*, Vol. 23, Núm. 6 (062319), 2016, ESTADOS UNIDOS DE AMERICA.

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Ponencias y Comunicaciones a congresos

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Effect of fast electrons on the stability of resistive interchange modes; en: Europhysics Conference Abstracts, European Physical Society, 2016.
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Microstructural and mechanical characterization of an ods ferritic steel with optimised oxygen content; en: Advances in Materials and Processing Technologies Conference (AMPT 2015). Program/Book of Abstracts, , 2016.
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- POPOVIC, Z.; MARTIN, J. R. ; ESPOSITO, B.; MAROCCO, D.; CAUSA, F.; BURATTI, P.; BONCAGNI, L.; CARNEVALE, D.; GOSPODARCZYK, M.
Runaway electron behavior in the Frascati Tokamak Upgrade (FTU); en: Bulletin of the American Physical Society: 58th Annual Meeting of the APS Division of Plasma Physics, AMERICAN PHYSICAL SOCIETY, 2016.
- RODRIGUEZ, M.A.; GUARNIZO, G.A.; MELENDEZ, J. ; BRIZ, S.; CASTRO, A.S.D.; LOPEZ, F.; MARTIN, M.J.; CAMPO, D.D.
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Anisotropy of electrical conductivity in dc due to intrinsic defect formation in alpha-Al₂O₃ single crystal implanted with Mg ions; en: Nuclear instruments and methods in physics research. Section B: Beam interactions with materials and atoms (18th International Conference on Radiation Effects in Insulators (REI-18), 26th to 31st October, 2015), ELSEVIER B.V., HOLANDA - PAISES BAJOS, 2016.
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Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- LUIS RAUL SANCHEZ FERNANDEZ
Título: colaborar con el grupo del Prof. Newman sobre transporte no-difusivo en running-sandpiles y en tokamaks
Centro Externo: UNIVERSIDAD DE ALASKA
País: ESTADOS UNIDOS DE AMERICA
Duración: 05/07/2016 a 26/08/2016.
- SILVIA NOEMI SANTALLA ARRIBAS
Título: Geometría diferencial y topología en sistemas de crecimiento de interfases: aspectos teóricos y experimentales
Centro Externo: Universidade Federal de Viçosa
País: BRASIL
Duración: 01/04/2016 a 31/08/2016.
- WILLIAM AGNELO GRACIAS
Título: Estancia pre-doctoral en M2P2
Centro Externo: AIX-MARSEILLE UNIVERSITE
País: FRANCIA
Duración: 07/03/2016 a 05/06/2016.
- ZANA POPOVIC
Título: Colaboración FTU/UC3M
Centro Externo: ENEA, Fusion and Nuclear Safety Department, C.R. Frascati
País: ITALIA
Duración: 06/06/2016 a 24/06/2016.

- ZANA POPOVIC
Título: Colaboración FTU/UC3M
Centro Externo: ENEA, Fusion and Nuclear Safety Department, C.R. Frascati
País: ITALIA
Duración: 12/09/2016 a 30/09/2016.