

## **PROGRAMA DE DOCTORADO CON MENCIÓN DE CALIDAD EN**

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Ciencias, Tecnología y Computación

## **1. DENOMINACIÓN DEL PROGRAMA**

Ciencias, Tecnología y Computación

## **2. OBJETIVOS GENERALES DEL PROGRAMA Y OBJETIVOS PARTICULARES DE CADA CURSO**

### **2.1. Objetivos Generales del Programa**

El objetivo principal de este programa consiste en ofrecer una formación avanzada en áreas científicas y tecnológicas, basándose en la experiencia investigadora, profesional y de formación de los grupos involucrados en esta propuesta. Más concretamente se pretende que el estudiante consiga el siguiente objetivos básico:

- Una formación fundamental y específica en investigación, a través de un master y posteriormente un doctorado, que le permita la realización de un trabajo que pueda constituir una tesis doctoral y la obtención de conocimientos y destrezas suficientes para incorporarse como investigador en grupos de investigación punteros, sea en el ámbito de la administración pública como en la empresa privada.

### **2.2. Objetivos Particulares de cada Curso**

Se detallan en las guías docentes.

### 3. ESTRUCTURA DEL PROGRAMA DE DOCTORADO

El programa de doctorado se estructura en dos partes, una de formación fundamentalmente docente a través de un master y otra de investigación, desarrollando una tesis doctoral bajo la supervisión de un investigador en una de las líneas que se indican, integrado en uno de los grupos de investigación del programa. La primera fase se realiza a través de los master de "Física y Tecnologías Físicas", "Computación", "Ciencia de Materiales" o "Técnicas de Análisis, Evaluación y Gestión Sostenible de Procesos y Riesgos Naturales", aunque se prevé la posibilidad de acceso desde otros Master. Todos ellos tienen una carga docente entre 60 y 120 créditos, dependiendo de la formación previa del alumno. De los 60 créditos mínimos, 20 son de un proyecto de investigación o Tesis de Master.

**4. NÚMERO DE ALUMNOS MATRICULADOS EN EL CURSO ACADÉMICO  
2007/08**

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## 5. LÍNEAS DE INVESTIGACIÓN DEL PROGRAMA

### Astrofísica

|                                | NOMBRE Y APELLIDOS   | UNIVERSIDAD / INSTITUCIÓN / ENTIDAD  | CATEGORÍA / CARGO            | ÁREA DE CONOCIMIENTO     |
|--------------------------------|--|--------------------------------------|------------------------------|--------------------------|
| 1                              | Luis Julián Goicoechea Santamaría  | Universidad de Cantabria             | Profesor Titular             | Astronomía y Astrofísica |
| 2                              | José Ignacio González Serrano  | Universidad de Cantabria             | Profesor Titular             | Astronomía y Astrofísica |
| 3                              | Enrique Martínez González  | CSIC/IFCA                            | Investigador Científico      | Astronomía y Astrofísica |
| 4                              | José Luis Sanz Estévez   | U. Cantabria/IFCA                    | Catedrático                  | Astronomía y Astrofísica |
| 5                              | Rita Belén Barreiro Vilas  | U. Cantabria/IFCA                    | Profesor Contratado Doctor   | Astronomía y Astrofísica |
| 6                              | José María Diego Rodríguez   | CSIC/IFCA                            | Contrato Ramón y Cajal       | Astronomía y Astrofísica |
| 7                              | Diego Herranz Muñoz  | U. Cantabria/IFCA                    | Ayudante Doctor              | Astronomía y Astrofísica |
| 8                              | Patricio Vielva Martínez   | CSIC/IFCA                            | Contrato Postdoc I3P         | Astronomía y Astrofísica |
| 9                              | Vicent Martínez García   | U. Valencia/Observatorio Astronómico | Profesor Titular             | Astronomía y Astrofísica |
| 10                             | Xavier Barcons Jáuregui  | CSIC                                 | Prof. Investigación          | Astronomía y Astrofísica |
| 11                             | Francisco J. Carrera Troyano   | Universidad de Cantabria             | Profesor Titular             | Astronomía y Astrofísica |
| 12                             | María Teresa Ceballos Merino   | CSIC                                 | Contratada post-doctoral     | Astronomía y Astrofísica |
| 13                             | Francesca Panessa  | CSIC                                 | Contratada Juan de la Cierva | Astronomía y Astrofísica |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |  |                                      |                              |                          |
| 1                              | Lentes gravitatorias   |                                      |                              |                          |
| 2                              | Materia oscura   |                                      |                              |                          |
| 3                              | Exoplanetas  |                                      |                              |                          |
| 4                              | Radiofuentes extragalácticas   |                                      |                              |                          |
| 5                              | Instrumentación grandes telescopios  |                                      |                              |                          |
| 6                              | Macroestructura del universo y fondo de microondas (tratamiento de imágenes) |                                      |                              |                          |
| 7                              | Astronomía de rayos X  |                                      |                              |                          |
| 8                              | Procesado de datos astronómicos  |                                      |                              |                          |
| 9                              | Instrumentación avanzada en rayos X  |                                      |                              |                          |

## Física de Altas Energías y Computación Distribuida (Grids)

|    | <b>NOMBRE Y APELLIDOS</b>   | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b>         | <b>ÁREA DE CONOCIMIENTO</b>                |
|----|---|--|----------------------------------|--|
| 1  | <b>Alberto Ruiz Jimeno</b>  | <b>UC</b>                                  | <b>Catedrático</b>               | <b>Física Atómica, Molecular y Nuclear</b> |
| 2  | <b>Teresa Rodrigo Anoro</b>   | <b>UC</b>                                  | <b>Catedrática</b>               | <b>Física Atómica, Molecular y Nuclear</b> |
| 3  | <b>Francisco Matorras</b>   | <b>UC</b>                                  | <b>Profesor Titular</b>          | <b>Física Atómica, Molecular y Nuclear</b> |
| 4  | <b>Jesús Marco de Lucas</b>   | <b>CSIC</b>                                | <b>Profesor de Investigación</b> |  |
| 5  | <b>Celso Martínez Rivero</b>  | <b>CSIC</b>                                | <b>Científico Titular</b>        |  |
| 6  | <b>Iván Vila Álvarez</b>  | <b>CSIC</b>                                | <b>Científico Titular</b>        |  |
| 7  | <b>Javier Cuevas Maestro</b>  | <b>U. Oviedo</b>                           | <b>Profesor Titular</b>          | <b>Física Atómica, Molecular y Nuclear</b> |
| 8  | <b>Rocío Vilar Cortabitarte</b>   | <b>UC</b>                                  | <b>Ramón y Cajal</b>             |  |
| 9  | <b>Sven Heinemeyer</b>  | <b>CSIC</b>                                | <b>Ramón y Cajal</b>             |  |
| 10 | <b>Gervasio Gómez Gramuglio</b>   | <b>CSIC</b>                                | <b>Ramón y Cajal</b>             |  |
| 11 | <b>Isidro González Caballero</b>  | <b>UC</b>                                  | <b>Contratado</b>                |  |
| 12 | <b>Amparo López Virto</b>   | <b>UC</b>                                  | <b>Contratada</b>                |  |
|    | <b>Otros Doctores que se incorporen al grupo</b>                            |  |                                  |  |
|    | <b>LÍNEAS DE INVESTIGACIÓN</b>  |  |                                  |  |
| 1  | ANÁLISIS Y DESARROLLO SOFTWARE APLICADO A FÍSICA EXPERIMENTAL DE PARTICULAS |  |                                  |  |
| 2  | DESARROLLO E INSTRUMENTACION DE DETECTORES DE PARTICULAS                    |  |                                  |  |
| 3  | FENOMENOLOGÍA EN FÍSICA DE PARTICULAS                                       |  |                                  |  |
| 4  | COMPUTING DISTRIBUIDO (GRID)  |  |                                  |  |

## Óptica

|                                | <b>NOMBRE Y APELLIDOS</b>   | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|---|--|--------------------------|-----------------------------|
| 1                              | <b>Fernández Canales Vidal</b>  | <b>UC</b>                                  | <b>CD</b>                | <b>F. Aplicada</b>          |
| 2                              | <b>González Fernández Francisco</b>   | <b>UC</b>                                  | <b>CU</b>                | <b>Óptica</b>               |
| 3                              | <b>Moreno Gracia Fernando</b>   | <b>UC</b>                                  | <b>CU</b>                | <b>Óptica</b>               |
| 4                              | <b>Pérez Cagigal Manuel</b>   | <b>UC</b>                                  | <b>CU</b>                | <b>Óptica</b>               |
| 5                              | <b>Saiz Vega José María</b>   | <b>UC</b>                                  | <b>PTU</b>               | <b>Óptica</b>               |
| 6                              | <b>Valle Herrero Pedro José</b>   | <b>UC</b>                                  | <b>PTU</b>               | <b>Óptica</b>               |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |   |  |                          |                             |
| 1                              | Técnicas de difusión de luz aplicadas al control de superficies y microestructuras              |  |                          |                             |
| 2                              | Colorimetría en materiales vítreos  |  |                          |                             |
| 3                              | Nanofotónica  |  |                          |                             |
| 4                              | Óptica Adaptativa I: Desarrollo de sensores de frente de onda (astronomía y telecomunicaciones) |  |                          |                             |
| 5                              | Óptica Adaptativa II: Perfiles difractivos para sistemas con superresolución                    |  |                          |                             |

## Ingeniería Fotónica

|                                | <b>NOMBRE Y APELLIDOS</b>   | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b>   |
|--------------------------------|---|--|--------------------------|-------------------------------|
| 1                              | <b>Cobo García Adolfo</b>   | <b>UC</b>                                  | <b>CU</b>                | <b>Tecnología Electrónica</b> |
| 2                              | <b>Conde Portilla Olga M<sup>a</sup></b>                                      | <b>UC</b>                                  | <b>PTU</b>               | <b>Tecnología Electrónica</b> |
| 3                              | <b>Lomer Barboza Mauro</b>  | <b>UC</b>                                  | <b>PTU</b>               | <b>Tecnología Electrónica</b> |
| 4                              | <b>López Higuera José Miguel</b>  | <b>UC</b>                                  | <b>CU</b>                | <b>Tecnología Electrónica</b> |
| 5                              | <b>Madruga Saavedra Francisco Javier</b>                                      | <b>UC</b>                                  | <b>PF3</b>               | <b>Tecnología Electrónica</b> |
| 6                              | <b>Quintela Incera María Ángeles</b>  | <b>UC</b>                                  | <b>PF3</b>               | <b>Tecnología Electrónica</b> |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |   |  |                          |                               |
| 1                              | <b>Sistemas sensores . Transductores fotónicos, ópticos o de fibra óptica</b> |  |                          |                               |
| 2                              | <b>Componentes , Sistemas y redes para sensores y comunicaciones ópticas</b>  |  |                          |                               |
| 3                              | <b>Desarrollo de instrumentación optoelectronica</b>                          |  |                          |                               |
| 4                              | <b>Redes de difracción en fibras ópticas y tecnologías asociadas</b>          |  |                          |                               |
| 5                              | <b>Termografía infrarroja</b>   |  |                          |                               |

## Física Estadística y No Lineal

|                                | <b>NOMBRE Y APELLIDOS</b>           | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b>          | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|-------------------------------------|--|-----------------------------------|-----------------------------|
| 1                              | <b>Juan Manuel López Martín</b>     | <b>CSIC</b>                                | <b>Científico Titular</b>         |                             |
| 2                              | <b>Luis Pesquera González</b>       | <b>UC</b>                                  | <b>Catedrático</b>                | <b>Física Teórica</b>       |
| 3                              | <b>Miguel Angel Rodríguez Diaz</b>  | <b>CSIC</b>                                | <b>Investigador</b>               |                             |
| 4                              | <b>Angel Valle Gutiérrez</b>        | <b>UC</b>                                  | <b>Profesor Titular</b>           | <b>Física Teórica</b>       |
| 5                              | <b>Horacio Wio</b>                  | <b>UC</b>                                  | <b>Contrato Chair Marie Curie</b> |                             |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |                                     |  |                                   |                             |
| 1                              | <b>Física de sistemas complejos</b> |  |                                   |                             |
| 2                              | <b>Diodos láser (VCSELs)</b>        |  |                                   |                             |

## Termodinámica y Física Estadística

|                                | <b>NOMBRE Y APELLIDOS</b>   | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b>               | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|---|--|--|-----------------------------|
| 1                              | <b>Jaime Amorós Arnau</b>   | <b>U. de Cantabria</b>                     | <b>Catedrático de Universidad</b>      | <b>Física Aplicada</b>      |
| 2                              | <b>J. Ramón Solana Quirós</b>   | <b>U. de Cantabria</b>                     | <b>Profesor Titular de Universidad</b> | <b>Física Aplicada</b>      |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |   |  |  |                             |
| 1                              | <b>Teoría y simulación de las propiedades termodinámicas y estructurales de fluidos</b> |  |  |                             |

## Física de Plasmas

|                                | <b>NOMBRE Y APELLIDOS</b>                               | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b>         | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|---|--|----------------------------------|-----------------------------|
| 1                              | <b>Ernesto Anabitarte Cano</b>                          | <b>UC</b>                                  | <b>Prof. Titular Universidad</b> | <b>Física Aplicada</b>      |
| 2                              | <b>J. M. Senties Vián</b>                               | <b>UC</b>                                  | <b>Prof. Titular Universidad</b> | <b>Física Aplicada</b>      |
| 3                              | <b>Emilio García Bustamante</b>                         | <b>UC</b>                                  | <b>Prof. Titular Universidad</b> | <b>Física Aplicada</b>      |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |   |  |                                  |                             |
| 1                              | <b>Turbulencia en plasmas</b>                           |  |                                  |                             |
| 2                              | <b>Diagnosís en plasma</b>                              |  |                                  |                             |
| 3                              | <b>Interacción de ondas electromagnéticas y plasmas</b> |  |                                  |                             |

## Física Teórica y Nuclear

|                                | <b>NOMBRE Y APELLIDOS</b>   | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b>       | <b>ÁREA DE CONOCIMIENTO</b>                |
|--------------------------------|---|--|--------------------------------|--|
| 1                              | <b>Saturnino Marcos Marcos</b>  | <b>UC</b>                                  | <b>Catedrático Universidad</b> | <b>Física Atómica, Molecular y Nuclear</b> |
| 2                              | <b>Ramón Niembro Bárcena</b>  | <b>UC</b>                                  | <b>Titular Universidad</b>     | <b>Física Atómica, Molecular y Nuclear</b> |
| 3                              | <b>Mercedes López Quelle</b>  | <b>UC</b>                                  | <b>Titular Universidad</b>     | <b>Física Aplicada</b>                     |
| 4                              | <b>Emilio Santos Corchero</b>   | <b>UC</b>                                  | <b>Catedrático Universidad</b> | <b>Física Teórica</b>                      |
| 5                              | <b>Rafael Blanco Alcañiz</b>  | <b>UC</b>                                  | <b>Titular Universidad</b>     | <b>Física Teórica</b>                      |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |   |  |                                |  |
| 1                              | ESTUDIO DE PROPIEDADES NUCLEARES EN FÍSICA NUCLEAR Y ESTRELLAS DE NEUTRONES MEDIANTE MODELOS RELATIVISTAS |  |                                |  |
| 2                              | FUNDAMENTOS DE FÍSICA CUÁNTICA  |  |                                |  |
| 3                              | COMUNICACIONES ÓPTICAS  |  |                                |  |
| 4                              | ELECTRODINÁMICA CLÁSICA   |  |                                |  |
| 5                              | EQUILIBRIO DE ESTRELLAS RELATIVISTAS  |  |                                |  |

## Grupo de Magnetismo de la Materia

|                                | <b>NOMBRE Y APELLIDOS</b>   | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|---|--|--------------------------|-----------------------------|
| 1                              | <b>J. I. Espeso Martínez</b>  | <b>UCN</b>                                 | <b>PTU</b>               | <b>Fis. Mat. Cond.</b>      |
| 2                              | <b>L. Fernández Barquín</b>   | <b>UCN</b>                                 | <b>PTU</b>               | <b>Fis. Mat. Cond.</b>      |
| 3                              | <b>J. C. Gómez Sal</b>  | <b>UCN</b>                                 | <b>CU</b>                | <b>Fis. Mat. Cond.</b>      |
| 4                              | <b>J. Rodríguez Fernández</b>   | <b>UCN</b>                                 | <b>PTU</b>               | <b>Fis. Mat. Cond.</b>      |
| 5                              | <b>D. Rojas Pupo</b>  | <b>UCN</b>                                 | <b>JdeC</b>              | <b>Fis. Mat. Cond.</b>      |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |   |  |                          |                             |
| 1                              | <b>Materiales nanoestructurados Magnéticos</b>                                |  |                          |                             |
| 2                              | <b>Relación estructura y magnetismo en materiales magnéticos heterogéneos</b> |  |                          |                             |
| 3                              | <b>Grandes instalaciones para la investigación en materiales magnéticos</b>   |  |                          |                             |

### Grupo de Altas Presiones y Espectroscopia

|                                | <b>NOMBRE Y APELLIDOS</b>   | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|---|--|--------------------------|-----------------------------|
| 1                              | <b>F. Rodríguez González</b>  | <b>UCN</b>                                 | <b>CU</b>                | <b>Fis. Mat. Cond</b>       |
| 2                              | <b>R. Valiente Barroso</b>  | <b>UCN</b>                                 | <b>PTU</b>               | <b>Fis. Aplicada</b>        |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |   |  |                          |                             |
| 1                              | <b>Técnicas de Altas presiones y correlaciones estructurales.</b>                 |  |                          |                             |
| 2                              | <b>Espectroscopia (absorción/emisión resuelta en tiempo y alta resolución)</b>    |  |                          |                             |
| 3                              | <b>Materiales luminescentes, sistemas Jahn-Teller y fenómenos de upconversion</b> |  |                          |                             |

## Grupo Computacional de Materiales

|                                | <b>NOMBRE Y APELLIDOS</b>  | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|--|--|--------------------------|-----------------------------|
| 1                              | <b>J. A. Aramburu-Zabala Higuera</b>   | <b>UCN</b>                                 | <b>CU</b>                | <b>Fis. Mat. Cond</b>       |
| 2                              | <b>T. Barriuso Perez</b>   | <b>UCN</b>                                 | <b>CU</b>                | <b>Fis. At Mol Nucl</b>     |
| 3                              | <b>J. Junquera Quintana</b>  | <b>UCN</b>                                 | <b>RyC</b>               | <b>Fis. Mat. Cond</b>       |
| 4                              | <b>M. Moreno Mas</b>   | <b>UCN</b>                                 | <b>CU</b>                | <b>Fis. Mat. Cond</b>       |
| 5                              | <b>A. Mañanes Pérez</b>  | <b>UCN</b>                                 | <b>PTU</b>               | <b>Fis. At. Mol Nucl</b>    |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |  |  |                          |                             |
| 1                              | <b>Simulación computacional de materiales puros e impurificados: estudio de inestabilidades.</b> |  |                          |                             |
| 2                              | <b>Simulación computacional de materiales dieléctricos, ferroeléctricos y piezoeeléctricos</b>   |  |                          |                             |
| 3                              | <b>Transferencia protónica y puentes de hidrógeno</b>  |  |                          |                             |
| 4                              | <b>Simulación de agregados y nanoclusters</b>  |  |                          |                             |

## Grupo de Química Inorgánica

|                                | <b>NOMBRE Y APELLIDOS</b>                              | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|--|--|--------------------------|-----------------------------|
| 1                              | <b>C. Blanco Delgado</b>                               | <b>UCN</b>                                 | <b>CU</b>                | <b>Química Inorgánica</b>   |
| 2                              | <b>F. González Martínez</b>                            | <b>UCN</b>                                 | <b>PTU</b>               | <b>Química Inorgánica</b>   |
| 3                              | <b>J. Herrero Romero</b>                               | <b>UCN</b>                                 | <b>CU</b>                | <b>Química Inorgánica</b>   |
| 4                              | <b>C. Pesquera González</b>                            | <b>UCN</b>                                 | <b>PTU</b>               | <b>Química Inorgánica</b>   |
| 5                              | <b>A. Perdigón Aller</b>                               | <b>UCN</b>                                 | <b>R. y C.</b>           | <b>Química Inorgánica</b>   |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |  |  |                          |                             |
| 1                              | <b>Síntesis y caracterización de nuevos materiales</b> |  |                          |                             |
| 2                              | <b>Catálisis heterogénea y catálisis homogénea</b>     |  |                          |                             |
| 3                              | <b>Adsorción y Quimisorción de sólidos</b>             |  |                          |                             |

## Ingeniería de Materiales

|                                | <b>NOMBRE Y APELLIDOS</b>  | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b> |
|--------------------------------|--|--|--------------------------|-----------------------------|
| 1                              | <b>J. A. Álvarez Laso</b>  | <b>UCN</b>                                 | <b>PTU</b>               | <b>Ing. Mat.</b>            |
| 2                              | <b>J. A. Polanco Madrazo</b>                                     | <b>UCN</b>                                 | <b>PTU</b>               | <b>Ing. Mat.</b>            |
| 3                              | <b>J. Setién Marquínez</b>                                       | <b>UCN</b>                                 | <b>PTU</b>               | <b>Ing. Mat.</b>            |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |  |  |                          |                             |
| 1                              | <b>Caracterización microestructural y mecánica de materiales</b> |  |                          |                             |
| 2                              | <b>Micromecanismos de fractura local</b>                         |  |                          |                             |

### Física Médica – Radiactividad Ambiental

|   | <b>NOMBRE Y APELLIDOS</b>                                | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b>         |
|---|--|--|--------------------------|-------------------------------------|
| 1 | <b>J. Soto Torres</b>                                    | <b>UCN</b>                                 | <b>CU</b>                | <b>Radiología y Medicina Física</b> |
|   | <b>LÍNEAS DE INVESTIGACIÓN</b>                           |  |                          |                                     |
| 1 | <b>Espectroscopía del Hueso</b>                          |  |                          |                                     |
| 2 | <b>Técnicas nucleares para el análisis de Materiales</b> |  |                          |                                     |

## Computadores y Tiempo Real

|   | <b>NOMBRE Y APELLIDOS</b>  | <b>UNIVERSIDAD / DEPARTAMENTO</b> | <b>CATEGORÍA / CARGO</b>      | <b>ÁREA DE CONOCIMIENTO</b>              |
|---|--|-----------------------------------|-------------------------------|--|
| 1 | <b>Drake Moyano, José María</b>  | <b>UC-DEC</b>                     | <b>Catedrático</b>            | <b>Electrónica</b>                       |
| 2 | <b>González Harbour, Michael</b>   | <b>UC-DEC</b>                     | <b>Catedrático</b>            | <b>Lenguajes y Sistemas Informáticos</b> |
| 3 | <b>Gutiérrez García, José Javier</b>   | <b>UC-DEC</b>                     | <b>Profesor Titular</b>       | <b>Electrónica</b>                       |
| 4 | <b>Palencia Gutiérrez, José Carlos</b>   | <b>UC-DEC</b>                     | <b>Profesor Titular</b>       | <b>Electrónica</b>                       |
| 5 | <b>Granda Miguel, Mercedes</b>   | <b>UC-DEC</b>                     | <b>Profesor Titular</b>       | <b>Electrónica</b>                       |
| 6 | <b>Mediavilla Bolado, Elena</b>  | <b>UC-DEC</b>                     | <b>Profesor Titular</b>       | <b>Electrónica</b>                       |
| 7 | <b>Aldea Rivas, Mario</b>  | <b>UC-DEC</b>                     | <b>Prof. Formación Doctor</b> | <b>Electrónica</b>                       |
| 8 | <b>Medina Pasaje, Julio</b>  | <b>UC-DEC</b>                     | <b>Investigador Doctor</b>    | <b>Electrónica</b>                       |
|   | Otros profesores que se ascriban al Grupo de Computadores y Tiempo Real        |                                   |                               |  |
|   | <b>LÍNEAS DE INVESTIGACIÓN</b>   |                                   |                               |  |
| 1 | Ingeniería software de tiempo real   |                                   |                               |  |
| 2 | Métodos y herramientas CASE para análisis y diseño de sistemas de tiempo real  |                                   |                               |  |
| 3 | Controladores industriales, sistemas robotizados e instrumentación inteligente |                                   |                               |  |

## Geodinámica Externa

|                                | <b>NOMBRE Y APELLIDOS</b>  | <b>UNIVERSIDAD / INSTITUCIÓN / ENTIDAD</b> | <b>CATEGORÍA / CARGO</b> | <b>ÁREA DE CONOCIMIENTO</b>               |
|--------------------------------|--|--|--------------------------|---|
| 1                              | <b>Antonio Uceda</b>   | <b>UC</b>                                  | <b>CU</b>                | <b>Geodinámica Externa</b>                |
| 2                              | <b>José Ramón Díaz de Terán Mira</b>   | <b>UC</b>                                  | <b>PTU</b>               | <b>Geodinámica Externa</b>                |
| 3                              | <b>Enrique Francés Arriola</b>   | <b>UC</b>                                  | <b>PTU</b>               | <b>Geodinámica Externa</b>                |
| 4                              | <b>Alberto González Díez</b>   | <b>UC</b>                                  | <b>PTU</b>               | <b>Geodinámica Externa</b>                |
| 5                              | <b>Juan Remondo Tejerina</b>   | <b>UC</b>                                  | <b>PCD</b>               | <b>Geodinámica Externa</b>                |
| 6                              | <b>Luis Salas Gómez</b>  | <b>UC</b>                                  | <b>PTIEU</b>             | <b>Geodinámica Externa</b>                |
| 7                              | <b>Gema Fernández Maroto</b>   | <b>UC</b>                                  | <b>PFIII</b>             | <b>Prospección e Investigación Minera</b> |
| 8                              | <b>Patricio Martínez Cedrún</b>  | <b>UC</b>                                  | <b>PAsoc.</b>            | <b>Prospección e Investigación Minera</b> |
| 9                              | <b>Viola Maria Bruschi</b>   | <b>UC</b>                                  | <b>PAsoc.</b>            | <b>Geodinámica Externa</b>                |
| 10                             | <b>Jaime Bonachea</b>  | <b>UC</b>                                  | <b>Investigador</b>      | <b>Geodinámica Externa</b>                |
| 11                             | <b>David del Corral Iglesias</b>   | <b>UC</b>                                  | <b>Investigador</b>      | <b>Geodinámica Externa</b>                |
| <b>LÍNEAS DE INVESTIGACIÓN</b> |  |  |                          |   |
| 1                              | Cambio climático y riesgos naturales   |  |                          |   |
| 2                              | Evaluación y planificación ambiental; indicadores ambientales  |  |                          |   |
| 3                              | Influencia de las actividades humanas en los procesos geomorfológicos  |  |                          |   |
| 4                              | Cartografía geocientífica aplicada a la planificación del territorio   |  |                          |   |
| 5                              | Análisis y evaluación de riesgos naturales   |  |                          |   |
| 6                              | Inestabilidad de laderas y taludes naturales   |  |                          |   |
| 7                              | Análisis de procesos superficiales en entornos SIG   |  |                          |   |
| 8                              | Problemática ambiental de zonas litorales  |  |                          |   |
| 9                              | Rocas industriales: evaluación y explotación   |  |                          |   |
| 10                             | Restauración ambiental de zonas degradadas   |  |                          |   |
| 11                             | Aplicación de técnicas fotogramétricas digitales, teledetección y sensores remotos al estudio y movilización de procesos superficiales |  |                          |   |

## 6. TUTORÍA DE TESIS

### Listado de tesis doctorales leídas entre 2004 y 2008-05-21

| Autor                                  | Fecha de Lectura | Título  | Director   |
|--|------------------|---|--|
| AGUADO MENÉNDEZ, FERNANDO              | 17/06/2005       | Comportamiento de Sistemas Jahn-Teller de Cu <sup>2+</sup> y Mn <sup>3+</sup> Sometidos a Altas Presiones.  | RODRÍGUEZ GONZÁLEZ, FERNANDO                           |
| ALCAIDE ORPI, JOSÉ FERNANDO            | 01/12/2006       | Desarrollo y Aplicación de Procedimientos de Diagnóstico y Evaluación de la Calidad Ambiental. Caso de Estudio en el Municipio Bauta, La Habana, Cuba.      | J. R. DÍAZ DE TERÁN MIRA Y JESÚS SOTO TORRES           |
| BARRIO MARAÑÓN, CARMEN                 | 22/10/2004       | Propiedades Termodinámicas de Mezclas Binarias de Esferas Duras: Teoría y Simulación.   | SOLANA QUIRÓS, JOSÉ RAMÓN                              |
| BONACHEA PICO, JAIME                   | 30/10/2006       | Desarrollo de una Metodología para la Caracterización, Evaluación y Gestión de los Recursos de la Geodiversidad.  | J. R. DÍAZ DE TERÁN MIRA Y J. REMONDO TEJERINA         |
| BRUSCHI, VIOLA MARÍA                   | 28/09/2007       | Desarrollo, Aplicación y Validación de Procedimientos y Modelos para la Evaluación de Amenazas, Vulnerabilidad y Riesgo debidos a Procesos Geomorfológicos. | A. CENDRERO UCEDA Y A. GONZÁLEZ DÍEZ                   |
| CALDERÓN TAZÓN, ALICIA                 | 14/07/2006       | Construcción, Calibración y Evaluación del Sistema Link de Alineamiento del Espectrómetro de Muones del Experimento CMS.                                    | MATORRAS WEINIG, FRANCISCO                             |
| CASTELLANOS BALLESTEROS, OMAR FERNANDO | 31/10/2007       | Estudio de la Turbulencia en un Plasma Linealmente Magnetizado.   | ANABITARTE CANO, ERNESTO                               |
| CRUZ RODRÍGUEZ, MARCOS                 | 05/11/2007       | Evidencia Estadística de una No-Gaussianidad Local en los Datos WMAP.   | MARTÍNEZ GONZÁLEZ, ENRIQUE Y VIELVA MARTÍNEZ, PATRICIO |
| DUQUE CALVO, FERNANDO                  | 25/06/2004       | Estructura y Propiedades Electrónicas de Agregados de Aluminio Puro y Dopados con Hidrógeno.  | MAÑANES PÉREZ, ÁNGEL                                   |
| GARCÍA CALDERÓN, REBECA                | 13/01/2006       | Efectos Cooperativos en la Relajación Magnética de Aleaciones Nanométricas de Fe-Cu-Ag.   | FERNÁNDEZ BARQUÍN, LUIS                                |
| GARCÍA REVILLA, SARA                   | 12/05/2006       | Estudio Espectroscópico de Materiales Fotoluminiscentes con Metales de Transición y Tierras Raras.  | VALIENTE BARROSO, RAFAEL                               |
| GUTIÉRREZ GONZÁLEZ, CARMEN             | 22/06/2007       | Sistema de Lectura y Control para la Electrónica del Detector TPC de LHCb.  | LUCIANO MUSA Y PABLO SÁNCHEZ                           |
| HERNÁNDEZ CAMPO,                       | 21/03/2006       | Nuevos Fenómenos  | RODRÍGUEZ  |

|                                 |            |  |  |
|---------------------------------|------------|--|--|
| IGNACIO                         |            | Fotoluminiscentes Inducidos a Alta Presión en Materiales de Mn <sup>2+</sup> y Cr <sup>3+</sup> .  | GONZÁLEZ, FERNANDO   |
| LÓPEZ-CANIEGO ALCARRIA, MARCOS  | 21/12/2006 | Detección de Fuentes Puntuales en Mapas de la Radiación del Fondo Cósmico de Microondas mediante Filtros Óptimos.  | SANZ ESTÉVEZ, JOSE LUIS Y HERRANZ MUÑOZ, DIEGO                       |
| MARCANO AGUADO, NOELIA          | 25/02/2005 | Inhomogeneidades Intrínsecas en el Sistema de Electrones Fuertemente Correlacionados CeNi (1-x)Cu <sub>x</sub> .   | GÓMEZ SAL, JOSÉ CARLOS Y ESPESOMARTÍNEZ, JOSÉ IGNACIO                |
| MATEOS IBÁÑEZ, SILVIA           | 21/12/2006 | Espectroscopía de Galaxias Activas Distantes Detectadas con el Observatorio XMM-Newton.  | CARRERA TROYANO, FRANCISCO JESÚS Y BARCONS JÁUREGUI, FRANCESC XAVIER |
| MEDINA PASAJE, JULIO LUIS       | 01/06/2005 | Metodologías y Herramientas UML para el Modelado y Análisis de Sistemas de Tiempo Real Orientado a Objetos.  | JOSÉ M. DRAKE MOYANO   |
| MERCHERS, OLIVIER               | 30/10/2007 | Un Estudio de los Efectos de Difusión Múltiple sobre la Radiación Difundida por Agregados de Partículas.   | GONZÁLEZ FERNÁNDEZ, FRANCISCO Y MORENO GRACIA, FERNANDO              |
| MONTESERÍN SÁNCHEZ, CARLOS      | 11/04/2008 | Desarrollo de Escalares en la Esfera y su Aplicación al Fondo Cósmico de Microondas.   | BARREIRO VILAS, RITA BELÉN   |
| ORTIZ MÁRQUEZ, MARÍA DOLORES    | 26/04/2004 | Evaluación de Parámetros de Calidad Visual Mediante un Modelo de Ojo Personalizado. Aplicación a la Cirugía Refractiva.  | GONZÁLEZ FERNÁNDEZ, FRANCISCO  |
| PALENCIA CORTEZÓN, JOSÉ ENRIQUE | 27/03/2007 | Medida de la Sección Eficaz de Producción tt en Colisiones pp con s=1.96 TeV Utilizando Sucesos de Lepton+Jets en el Detector CDF de Fermilab.   | RODRIGO ANORO, MARÍA TERESA Y GÓMEZ GRAMUGLIO, GERVASIO              |
| PIEDRA GÓMEZ, JONATAN           | 19/07/2005 | Determinación de Delta m <sub>d</sub> y Calibración Absoluta del Etiquetado de Sabor para la Medida de Delta m <sub>s</sub> , en Desintegraciones Reconstruidas Completamente en el Experimento CDF. | RUIZ JIMENO, ALBERTO Y VILA ÁLVAREZ, IVÁN                            |
| RODRÍGUEZ GONZÁLEZ, DAVID       | 17/07/2007 | Gestión y Minería de Datos de Física de Altas Energías en el Proyecto CrossGrid.   | MARCO DE LUCAS, JESÚS  |
| RUIZ MARTÍN, MARÍA DOLORES      | 26/10/2007 | Dinámica Microscópica de Líquidos No Simples.  | BERMEJO BARRERA, FRANCISCO JAVIER Y JIMÉNEZ RUIZ, MÓNICA             |
| SÁNCHEZ MARCOS, JORGE           | 02/02/2005 | Calor Específico y Efecto Magnetocalórico en Intermetálicos de Gd, Hidruros de Ce y Fosfatos de Metales de Transición.   | RODRÍGUEZ FERNÁNDEZ, JESÚS   |
| SZENDRO TERÁN, IVAN GEORG       | 14/01/2008 | Estructura Espacio-Temporal de Perturbaciones en Sistemas Caóticos Extendidos en el Espacio.   | LÓPEZ MARTÍN, JUAN MANUEL  |
| ULLÁN NIETO, AURORA MARÍA       | 25/04/2006 | Variabilidad y Cromaticidad de Cuásares Múltiples.   | GOICOECHEA SANTAMARÍA, LUIS  |

|                          |            |  |                                      |
|--------------------------|------------|--|--------------------------------------|
| YEDRA MARTÍNEZ,<br>ÁNGEL | 26/01/2005 | Efectos de Interfase en<br>Nanopartículas Magnéticas con<br>Estructura Núcleo/Corteza<br>Sintetizadas por Reducción Química. | JULIÁN<br>FERNÁNDEZ BARQUÍN,<br>LUIS |
|--------------------------|------------|--|--------------------------------------|

## 7. RESULTADOS DE INVESTIGACIÓN

### Publicaciones derivadas de la investigación doctoral del programa

1. Title: [Measurement of the J/psi meson and b-hadron production cross sections in p\(p\)over-bar collisions at root s=1960 GeV](#)

Author(s): Acosta D, Adelman J, Affolder T, et al.

Source: PHYSICAL REVIEW D Volume: 71 Issue: 3 Article Number: 032001 Published: FEB 2005

Times Cited: [129](#)

2. Title: [Observation of the narrow state X\(3872\)-> J/psi pi\(+\)pi\(-\) in \(p\)over-barp collisions at root s=1.96 TeV](#)

Author(s): Acosta D, Affolder T, Ahn MH, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 93 Issue: 7 Article Number: 072001  
Published: AUG 13 2004

Times Cited: [106](#)

3. Title: [The unresolved hard X-ray background: the missing source population implied by the Chandra and XMM-Newton deep fields](#)

Author(s): Worsley MA, Fabian AC, Bauer FE, et al.

Source: MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 357  
Issue: 4 Pages: 1281-1287 Published: MAR 11 2005

Times Cited: [63](#)

4. Title: [Detection of a non-Gaussian spot in WMAP](#)

Author(s): Cruz M, Martinez-Gonzalez E, Vielva P, et al.

Source: MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 356  
Issue: 1 Pages: 29-40 Published: JAN 1 2005

Times Cited: [60](#)

5. Title: [Precision electroweak measurements on the Z resonance](#)

Author(s): Schael S, Barate R, Bruneliere R, et al.

Source: PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 427  
Issue: 5-6 Pages: 257-454 Published: MAY 2006

Times Cited: [57](#)

6. Title: [Observation of \(BsBs0\)-B-0 oscillations](#)

Author(s): Abulencia A, Adelman J, Affolder T, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 97 Issue: 24 Article Number: 242003  
Published: DEC 15 2006

Times Cited: [55](#)

7. Title: [Measurement of the B-s\(0\)-\(B\)over-bar\(s\)\(0\) oscillation frequency](#)

Author(s): Abulencia A, Acosta D, Adelman J, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 97 Issue: 6 Article Number: 062003  
Published: AUG 11 2006

Times Cited: [48](#)

8. Title: [Search for neutral MSSM Higgs bosons at LEP](#)

Author(s): Schael S, Barate R, Bruneliere R, et al.

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 47 Issue: 3 Pages: 547-587

Published: SEP 2006

Times Cited: [45](#)

9. Title: [Measurement of the  \$t\(\bar{t}\)\$  production cross section in  \$p\(\bar{p}\)\$  collisions at  \$\sqrt{s}=1.96\$  TeV using lepton plus jets events with secondary vertex b-tagging](#)

Author(s): Acosta D, Adelman J, Affolder T, et al.

Source: PHYSICAL REVIEW D Volume: 71 Issue: 5 Article Number: 052003 Published: MAR 2005

Times Cited: [45](#)

10. Title: [Measurement of the  \$t\(\bar{t}\)\$  production cross section in  \$p\(\bar{p}\)\$  collisions at  \$\sqrt{s}=1.96\$  TeV using dilepton events](#)

Author(s): Acosta D, Affolder T, Akimoto T, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 93 Issue: 14 Article Number: 142001

Published: OCT 1 2004

Times Cited: [37](#)

11. Title: [First measurements of inclusive W and Z cross sections from Run II of the Fermilab Tevatron Collider](#)

Author(s): Acosta D, Affolder T, Akimoto T, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 94 Issue: 9 Article Number: 091803

Published: MAR 11 2005

Times Cited: [33](#)

12. Title: [The \(un\)resolved X-ray background in the Lockman Hole](#)

Author(s): Worsley MA, Fabian AC, Barcons X, et al.

Source: MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 352 Issue: 3 Pages: L28-L33 Published: AUG 11 2004

Times Cited: [31](#)

13. Title: [Top quark mass measurement using the template method in the lepton plus jets channel at CDF II](#)

Author(s): Abulencia A, Acosta D, Adelman J, et al.

Source: PHYSICAL REVIEW D Volume: 73 Issue: 3 Article Number: 032003 Published: FEB 2006

Times Cited: [24](#)

14. Title: [X-ray spectra of XMM-Newton serendipitous medium flux sources](#)

Author(s): Mateos S, Barcons X, Carrera FJ, et al.

Source: ASTRONOMY & ASTROPHYSICS Volume: 433 Issue: 3 Pages: 855-873

Published: APR 2005

Times Cited: [22](#)

15. Title: [Measurement of the lifetime difference between B-s mass eigenstates](#)

Author(s): Acosta D, Adelman J, Affolder T, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 94 Issue: 10 Article Number: 101803

Published: MAR 18 2005

Times Cited: [22](#)

16. Title: [Search for electroweak single-top-quark production in  \$p\(\bar{p}\)\$  collisions at  \$\sqrt{s}=1.96\$  TeV](#)

- Author(s): Acosta D, Adelman J, Affolder T, et al.  
Source: PHYSICAL REVIEW D Volume: 71 Issue: 1 Article Number: 012005 Published: JAN 2005  
Times Cited: [22](#)
17. Title: [Measurement of the dipion mass spectrum in  \$X\(3872\) \rightarrow J/\psi \pi^+ \pi^-\$  decays](#)  
Author(s): Abulencia A, Acosta D, Adelman J, et al.  
Source: PHYSICAL REVIEW LETTERS Volume: 96 Issue: 10 Article Number: 102002  
Published: MAR 17 2006  
Times Cited: [19](#)
18. Title: [XMM-Newton observations of the Lockman Hole IV: Spectra of the brightest AGN](#)  
Author(s): Mateos S, Barcons X, Carrera FJ, et al.  
Source: ASTRONOMY & ASTROPHYSICS Volume: 444 Issue: 1 Pages: 79-99 Published: DEC 2005  
Times Cited: [19](#)
19. Title: [Optimized search for single-top-quark production at the Fermilab Tevatron](#)  
Author(s): Acosta D, Affolder T, Albrow MG, et al.  
Source: PHYSICAL REVIEW D Volume: 69 Issue: 5 Article Number: 052003 Published: MAR 1 2004  
Times Cited: [19](#)
20. Title: [The non-Gaussian cold spot in Wilkinson Microwave Anisotropy Probe: significance, morphology and foreground contribution](#)  
Author(s): Cruz M, Tucci M, Martinez-Gonzalez E, et al.  
Source: MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 369 Issue: 1 Pages: 57-67 Published: JUN 11 2006  
Times Cited: [18](#)
21. Title: [Search for neutral Higgs bosons of the minimal supersymmetric standard model decaying to tau pairs in  \$p\bar{p}\$  collisions at  \$\sqrt{s}=1.96\$  TeV](#)  
Author(s): Abulencia A, Acosta D, Adelman J, et al.  
Source: PHYSICAL REVIEW LETTERS Volume: 96 Issue: 1 Article Number: 011802  
Published: JAN 13 2006  
Times Cited: [18](#)
22. Title: [Final results from DELPHI on the searches for SM and MSSM neutral Higgs bosons](#)  
Author(s): Abdallah J, Abreu P, Adam W, et al.  
Source: EUROPEAN PHYSICAL JOURNAL C Volume: 32 Issue: 2 Pages: 145-183  
Published: JAN 2004  
Times Cited: [18](#)
23. Title: [Measurement of the  \$t\bar{t}\$  production cross section in  \$p\bar{p}\$  collisions at  \$\sqrt{s}=1.96\$  TeV using kinematic fitting of b-tagged lepton plus jet events](#)  
Author(s): Acosta D, Adelman J, Affolder T, et al.  
Source: PHYSICAL REVIEW D Volume: 71 Issue: 7 Article Number: 072005 Published: APR 2005  
Times Cited: [17](#)
24. Title: [XMM-Newton observations of the Lockman Hole - III. A relativistic Fe line in the mean X-ray spectra of type-1 and type-2 AGN](#)  
Author(s): Streblyanska A, Hasinger G, Finoguenov A, et al.

Source: ASTRONOMY & ASTROPHYSICS Volume: 432 Issue: 2 Pages: 395-400

Published: MAR 2005

Times Cited: [17](#)

25. Title: [Measurement of W gamma and Z gamma production in p\(p\)over-bar collisions at root s=1.96 TeV](#)

Author(s): Acosta D, Adelman J, Affolder T, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 94 Issue: 4 Article Number: 041803

Published: FEB 4 2005

Times Cited: [16](#)

26. Title: [Photon events with missing energy in e\(+\)e\(-\) collisions at root s=130 to 209 GeV](#)

Author(s): Abdallah J, Abreu P, Adam W, et al.

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 38 Issue: 4 Pages: 395-411

Published: JAN 2005

Times Cited: [16](#)

27. Title: [Search for charged Higgs bosons from top quark decays in p\(p\)over-bar collisions at root s=1.96 TeV](#)

Author(s): Abulencia A, Acosta D, Adelman J, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 96 Issue: 4 Article Number: 042003

Published: FEB 3 2006

Times Cited: [15](#)

28. Title: [Precision top-quark mass measurement in the lepton plus jets topology in p\(p\)over-bar collisions at root s=1.96 TeV](#)

Author(s): Abulencia A, Acosta D, Adelman J, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 96 Issue: 2 Article Number: 022004

Published: JAN 20 2006

Times Cited: [15](#)

29. Title: [Measurement of bottom-quark hadron masses in exclusive J/psi decays with the CDF detector](#)

Author(s): Acosta D, Adelman J, Affolder T, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 96 Issue: 20 Article Number: 202001

Published: MAY 26 2006

Times Cited: [14](#)

30. Title: [Measurement of the W boson polarization in top decay at CDF at root s=1.8 TeV](#)

Author(s): Acosta D, Affolder T, Albrow MG, et al.

Source: PHYSICAL REVIEW D Volume: 71 Issue: 3 Article Number: 031101 Published: FEB 2005

Times Cited: [14](#)

31. Title: [Combination of CDF and D0 results on the W boson mass and width](#)

Author(s): Abazov VM, Abbott B, Abdesselam A, et al.

Source: PHYSICAL REVIEW D Volume: 70 Issue: 9 Article Number: 092008 Published: NOV 2004

Times Cited: [14](#)

32. Title: [Search for doubly charged Higgs bosons decaying to dileptons in p\(p\)over-bar collisions at root s=1.96 TeV](#)

Author(s): Acosta D, Affolder T, Akimoto T, et al.

- Source: PHYSICAL REVIEW LETTERS Volume: 93 Issue: 22 Article Number: 221802  
Published: NOV 26 2004  
Times Cited: [14](#)
33. Title: [Search for Kaluza-Klein graviton emission in  \$p\(\bar{p}\)\$  collisions at  \$\sqrt{s}=1.8\$  TeV using the missing energy signature](#)  
Author(s): Acosta D, Affolder T, Akimoto H, et al.  
Source: PHYSICAL REVIEW LETTERS Volume: 92 Issue: 12 Article Number: 121802  
Published: MAR 26 2004  
Times Cited: [14](#)
34. Title: [Search for  \$Z' \rightarrow e^{+} e^{-}\$  using dielectron mass and angular distribution](#)  
Author(s): Abulencia A, Acosta D, Adelman J, et al.  
Source: PHYSICAL REVIEW LETTERS Volume: 96 Issue: 21 Article Number: 211801  
Published: JUN 2 2006  
Times Cited: [13](#)
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Times Cited: 0

277. Title: [A measurement of the tau hadronic branching ratios](#)

Author(s): Abdallah J, Abreu P, Adam W, et al.

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 46 Issue: 1 Pages: 1-26 Published: APR 2006

Times Cited: 0

278. Title: [Study of double-tagged gamma gamma events at LEP II](#)

Author(s): Abdallah J, Abreu P, Adam W, et al.

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 46 Issue: 3 Pages: 559-568 Published: JUN 2006

Times Cited: 0

279. Title: [Evidence for an excess of soft photons in hadronic decays of Z\(0\)](#)

Author(s): Abdallah J, Abreu P, Adam W, et al.

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 47 Issue: 2 Pages: 273-294 Published: AUG 2006

Times Cited: 0

280. Title: [Effects of gamma and neutron irradiation on the optical absorption of pure silica core single-mode optical fibres from Nufern](#)

Author(s): Calderon A, Martinez-Rivero C, Matorras F, et al.

Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 565 Issue: 2 Pages: 599-602 Published: SEP 15 2006

Times Cited: 0

281. Title: [Large-size high-performance transparent amorphous silicon sensors for laser beam position detection](#)

Author(s): Calderon A, Martinez-Rivero C, Matorras F, et al.

Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 565 Issue: 2 Pages: 603-611 Published: SEP 15 2006

Times Cited: 0

282. Title: [A search for t -> tau nu q in t\(t\)-bar production](#)

Author(s): Abulencia A, Acosta D, Adelman J, et al.

Source: PHYSICS LETTERS B Volume: 639 Issue: 3-4 Pages: 172-178 Published: AUG 10 2006

Times Cited: 0

283. Title: [Observation of  \$B\text{-}s\(0\)\text{-}\rightarrow\psi\(2S\)\phi\$  and measurement of the ratio of branching fractions  \$B\(B\text{-}s\(0\)\text{-}\rightarrow\psi\(2S\)\phi\)/B\(B\text{-}s\(0\)\text{-}\rightarrow J/\psi\phi\)\$](#)   
 Author(s): Abulencia A, Acosta D, Adelman J, et al.  
 Source: PHYSICAL REVIEW LETTERS Volume: 96 Issue: 23 Article Number: 231801  
 Published: JUN 16 2006  
 Times Cited: 0
284. Title: [Corneal changes induced by laser ablation: study of the visual-quality evolution by a customized eye model](#)  
 Author(s): Ortiz D, Anera RG, Saiz JM, et al.  
 Source: JOURNAL OF MODERN OPTICS Volume: 53 Issue: 11 Pages: 1605-1618  
 Published: JUL 20 2006  
 Times Cited: 0
285. Title: [Charged particle multiplicity in three-jet events and two-gluon systems](#)  
 Author(s): Abdallah J, Abreu P, Adam W, et al.  
 Source: EUROPEAN PHYSICAL JOURNAL C Volume: 44 Issue: 3 Pages: 311-331  
 Published: NOV 2005  
 Times Cited: 0
286. Title: [Search for W and Z bosons in the reaction  \$\(p\)\text{-}\overline{p}\text{-}\rightarrow\$  two jets plus gamma at  \$\sqrt{s}=1.8\$  TeV](#)  
 Author(s): Acosta D, Affolder T, Albrow MG, et al.  
 Source: PHYSICAL REVIEW D Volume: 73 Issue: 1 Article Number: 012001 Published: JAN 2006  
 Times Cited: 0
287. Title: [Detection of point sources on two-dimensional images based on peaks](#)  
 Author(s): Lopez-Caniego M, Herranz D, Sanz JL, et al.  
 Source: EURASIP JOURNAL ON APPLIED SIGNAL PROCESSING Volume: 2005 Issue: 15  
 Pages: 2426-2436 Published: AUG 21 2005  
 Times Cited: 0
288. Title: [Thermal diffusivity and microstructure in API5L-X52 carbon steel](#)  
 Author(s): Pena-Rodriguez G, Flores-Macias O, Angeles-Chavez C, et al.  
 Source: INTERNATIONAL JOURNAL OF THERMOPHYSICS Volume: 26 Issue: 6 Pages: 1939-1948  
 Published: NOV 2005  
 Times Cited: 0
289. Title: [Search for  \$\Lambda\(0\)\(b\)\text{-}\rightarrow p\pi\$  and  \$\Lambda\(0\)\(b\)\text{-}\rightarrow pK\$  decays in  \$\(p\)\text{-}\overline{p}\$  collisions at  \$\sqrt{s}=1.96\$  TeV](#)  
 Author(s): Acosta D, Adelman J, Affolder T, et al.  
 Source: PHYSICAL REVIEW D Volume: 72 Issue: 5 Article Number: 051104 Published: SEP 2005  
 Times Cited: 0
290. Title: [Universal critical behavior of the synchronization transition in delayed chaotic systems](#)  
 Author(s): Szendro IG, Lopez JM  
 Source: PHYSICAL REVIEW E Volume: 71 Issue: 5 Article Number: 055203 Part: Part 2  
 Published: MAY 2005  
 Times Cited: 0
291. Title: [Experience with the International Testbed in the CrossGrid Project](#)

- Author(s): Comes J, David M, Martins J, et al.  
Source: ADVANCES IN GRID COMPUTING - EGC 2005 Volume: 3470 Pages: 98-110  
Published: 2005  
Times Cited: 0
292. Title: [H2SO4 corrosion of API5L-X52 pipeline steel: Thermal diffusivity and microstructure](#)  
Author(s): Pena-Rodriguez G, Angeles-Chavez C, Flores-Macias O, et al.  
Source: JOURNAL DE PHYSIQUE IV Volume: 125 Pages: 217-219 Published: JUN 2005  
Times Cited: 0
293. Title: [Precision B lifetimes and B mixing in CDF](#)  
Author(s): Piedra J  
Source: NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS Volume: 142 Pages: 147-152 Published: MAY 2005  
Times Cited: 0
294. Title: [An approach for quantifying geomorphological impacts for EIA of transportation infrastructures: a case study in northern Spain](#)  
Author(s): Bonachea J, Bruschi VM, Remondo J, et al.  
Source: GEOMORPHOLOGY Volume: 66 Issue: 1-4 Pages: 95-117 Published: MAR 1 2005  
Times Cited: 0
295. Title: [Comparison of three-jet events in p\(p\)over-bar collisions at root s=1.8 TeV to predictions from a next-to-leading order QCD calculation](#)  
Author(s): Acosta D, Affolder T, Albrow MG, et al.  
Source: PHYSICAL REVIEW D Volume: 71 Issue: 3 Article Number: 032002 Published: FEB 2005  
Times Cited: 0
296. Title: [Static and dynamic magnetic properties of mechanically alloyed Fe9Cu5Ag86](#)  
Author(s): Calderon RG, Barquin LF, Pankhurst QA  
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 272 Pages: E1177-E1179 Supplement: Suppl. 1 Published: MAY 2004  
Times Cited: 0
297. Title: [MPICH-G2 implementation of an interactive artificial neural network training](#)  
Author(s): Rodriguez D, Gomes J, Marco J, et al.  
Source: GRID COMPUTING Volume: 3165 Pages: 61-68 Published: 2004  
Times Cited: 0
298. Title: [Hysteresis jumps in magnetic systems with random anisotropy](#)  
Author(s): Calderon RG, Sal JCG, Iglesias JR  
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 272 Special Issue: Part 1 Sp. Iss. SI Pages: 701-702 Part: Part 1 Sp. Iss. SI Published: MAY 2004  
Times Cited: 0
299. Title: [An application of computer graphics for landscape impact assessment](#)  
Author(s): Otero C, Bruschi V, Cendrero A, et al.  
Source: COMPUTATIONAL SCIENCE AND ITS APPLICATIONS - ICCSA 2004, PT 2 Volume: 3044 Pages: 779-788 Published: 2004  
Times Cited: 0
300. Title: [A precise measurement of the B+, B-0 and mean b-hadron lifetime with the DELPHI detector at LEP I](#)

Author(s): Abdallah J, Abreu P, Adam W, et al.

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 33 Issue: 3 Pages: 307-324

Published: MAR 2004

Times Cited: 0

301. Title: [RAID-1 and data stripping across the GRID](#)

Author(s): Marco R, Marco J, Rodriguez D, et al.

Source: GRID COMPUTING Volume: 2970 Pages: 119-123 Published: 2004

Times Cited: 0

302. Title: [Interactive distributed data access in a GRID environment](#)

Author(s): Rodriguez D, Marco J, Marco R, et al.

Source: GRID COMPUTING Volume: 2970 Pages: 190-197 Published: 2004

Times Cited: 0

303. Title: [b-tagging in DELPHI at LEP \(vol 32, pg 185, 2004\)](#)

Author(s): Abdallah J, Abreu P, Adam W, et al.

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 32 Issue: 2 Pages: 299-301

Published: JAN 2004

Times Cited: 0

## 8. RELACIÓN DE PROYECTOS DE INVESTIGACIÓN

### Listado de proyectos de investigación ligados al programa

| Departamento  | Investigador Responsable     | Título   | Fecha Inicio | Fecha Fin | Tipo                           | Organismo Financiador                    |
|---|------------------------------|--|--------------|-----------|--------------------------------|--|
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | RODRÍGUEZ FERNÁNDEZ, JESÚS   | MATERIALES MAGNETICOS FUNCIONALES Y NANOESTRUCTURADOS: SÍNTESIS, CARACTERIZACIÓN Y MODELIZACIÓN  | 2005         | 2008      | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA        |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | RODRÍGUEZ GONZÁLEZ, FERNANDO | NUEVOS FENÓMENOS LUMINISCENTES INDUCIDOS POR CAMBIOS ESTRUCTURALES A ALTAS PRESIONES   | 2005         | 2008      | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA        |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | FRANCÉS ARRIOLA, ENRIQUE     | CONSULTORÍA Y ASISTENCIA TÉCNICA PARA EL DESARROLLO DE CARTOGRAFÍA DE FLORA AMENAZADA Y FASE I DEL MAPA VEGETACIO 1:10.000 DEL PARQUE NACIONAL DE LOS PICOS DE EUROPA            | 2006         | 2008      | INVESTIGACIÓN CONTRATADA       | JARDÍN BOTÁNICO ATLÁNTICO DE GIJÓN, S.A. |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | RODRÍGUEZ GONZÁLEZ, FERNANDO | VIDRIOS FOTOACTIVOS PARA SISTEMAS SOLARES DE ALTA EFICIENCIA   | 2006         | 2009      | OTRAS CONVOCATORIAS NACIONALES | MINISTERIO DE FOMENTO                    |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | MORENO MAS, MIGUEL           | INESTABILIDADES ESTRUCTURALES EN SÓLIDOS AISLANTES, LÁMINAS NANOMÉTRICAS Y SISTEMAS CON GEOMETRÍA NO TRIVIAL MEDIANTE CÁLCULOS AB INITIO: EFECTOS DE PRESIÓN Y CAMPOS ELÉCTRICOS | 2006         | 2009      | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA        |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | CENDRERO UCEDA, ANTONIO      | ¿CAMBIO GEOMORFOLÓGICO GLOBAL? IMPLICACIONES PARA LA EVALUACIÓN Y PREDICCIÓN DEL RIESGO DE DESLIZAMIENTOS (CAMGEO)   | 2006         | 2009      | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA        |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | GONZÁLEZ DÍEZ, ALBERTO       | LA MEJORA DEL ANÁLISIS DE LA PELIGROSIDAD DE DESLIZAMIENTOS MEDIANTE EL EMPLEO DE MODELOS  | 2006         | 2009      | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA        |

|   |                               |   |      |      |                          |                                   |
|---|-------------------------------|---|------|------|--------------------------|-----------------------------------|
|   |                               | DIGITALES ÚTILES DE TERRENO DESARROLLADOS CON TÉCNICAS DE AUSCULTACIÓN FOTOGRAMÉTICAS, LASER Y TOPOMÉTRICAS                 |      |      |                          |                                   |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | RODRÍGUEZ FERNÁNDEZ, JESÚS    | ESTUDIO Y CONSTRUCCIÓN DE UN LEVITADOR MAGNÉTICO  | 2007 | 2008 | INVESTIGACIÓN CONTRATADA | SERVIMAPS SIG, S.L.               |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | RODRÍGUEZ GONZÁLEZ, FERNANDO  | DESARROLLO DE NUEVOS MATERIALES LUMINISCENTES PARA CÉLULAS FOTOVOLTÁICAS DE MAYOR EFICIENCIA                                | 2007 | 2008 | INVESTIGACIÓN CONTRATADA | CIDEMCO                           |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | CENDRERO UCEDA, ANTONIO       | ESTRATEGIA AMBIENTAL PARA EL APROVECHAMIENTO DE LA ENERGÍA EÓLICA EN CANTABRIA  | 2008 | 2008 | INVESTIGACIÓN CONTRATADA | GENERCAN                          |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | CENDRERO UCEDA, ANTONIO       | DISEÑO DE UNA ESTRATEGIA INTEGRADA PARA LA GEODIVERSIDAD EN CANTABRIA; PROTECCIÓN Y PUESTA EN VALOR DEL PATRIMONIO          | 2008 | 2009 | INVESTIGACIÓN CONTRATADA | GOBIERNO DE CANTABRIA             |
| CIENCIAS DE LA TIERRA Y FÍSICA DE LA MATERIA CONDENSADA | CENDRERO UCEDA, ANTONIO       | DISEÑO DE UNA ESTRATEGIA INTEGRADA PARA LA GEODIVERSIDAD EN CANTABRIA; PROPUESTAS DE EXPLOTACIÓN Y TRANSPORTE DE MATERIALES | 2008 | 2009 | INVESTIGACIÓN CONTRATADA | GOBIERNO DE CANTABRIA             |
| FÍSICA APLICADA   | ANABITARTE CANO, ERNESTO      | MECANISMOS DEL TRANSPORTE TURBULENTO EN PLASMAS CONFINADOS MAGNÉTICAMENTE Y SU DESCRIPCIÓN PROBABILÍSTICA                   | 2006 | 2009 | PLAN NACIONAL            | MINISTERIO DE EDUCACIÓN Y CIENCIA |
| FÍSICA APLICADA   | MORENO GRACIA, FERNANDO       | FUNDAMENTALS OF PHOTONICS CURRENT ADVANCES  | 2007 | 2008 | PLAN NACIONAL            | MINISTERIO DE EDUCACIÓN Y CIENCIA |
| FÍSICA APLICADA   | GONZÁLEZ FERNÁNDEZ, FRANCISCO | PUESTA EN MARCHA DE UN AERÓGRAFO INDUSTRIAL PARA DECORACIÓN DE SOPORTES VÍTREOS SINTERIZADOS                                | 2007 | 2008 | INVESTIGACIÓN CONTRATADA | HISBALIT, S.A.                    |
| FÍSICA APLICADA   | SOLANA QUIRÓS, JOSÉ RAMÓN     | PHASE DIAGRAM OF DNA DECORATED COLLOIDS (DIAGEL)  | 2007 | 2008 | UNIÓN EUROPEA            | COMISIÓN DE LA UNIÓN EUROPEA      |
| FÍSICA APLICADA   | MORENO GRACIA, FERNANDO       | ESTADÍSTICA DE LA LUZ DIFUNDIRA POR LAS NANOPARTÍCULAS METÁLICAS EN   | 2007 | 2010 | PLAN NACIONAL            | MINISTERIO DE EDUCACIÓN Y CIENCIA |

|  |  |  |      |      |                             |   |
|--|--|--|------|------|-----------------------------|---|
|  |  | SUSPENSIÓN.<br>INFLUENCIA DE<br>RESONANCIAS<br>PLASMÓNICAS Y<br>DIFUSIÓN MÚLTIPLE.<br>DESARROLLO DE<br>TÉCNICAS PARA<br>OBTENER<br>INFORMACIÓN DEL<br>DIFUSOR                  |      |      |                             |   |
| FÍSICA<br>APLICADA                               | GONZÁLEZ<br>FERNÁNDEZ,<br>FRANCISCO      | ESTANDARIZACIÓN<br>COLORIMÉTRICA DE<br>PASTAS DE VIDRIO<br>MEDIANTE EL USO DE<br>OPACIFICANTES Y<br>PIGMENTOS NEUTROS  | 2008 | 2009 | INVESTIGACIÓN<br>CONTRATADA | HISBALIT, S.A.                          |
| FÍSICA<br>MODERNA                                | MARCOS<br>MARCOS,<br>SATURNINO           | DESCRIPCIÓN<br>RELATIVISTA DE<br>MATERIA NUCLEAR Y<br>NÚCLEOS ATÓMICOS.<br>DIFUSIÓN DE<br>NEUTRINOS EN<br>ESTRELLAS DE<br>NEUTRONES  | 2005 | 2008 | PLAN NACIONAL               | MINISTERIO DE<br>EDUCACIÓN Y<br>CIENCIA |
| FÍSICA<br>MODERNA                                | GOICOECHEA<br>SANTAMARÍA,<br>LUIS JULIÁN | LENTESS<br>GRAVITATORIAS Y<br>MATERIA OSCURA   | 2007 | 2010 | PLAN NACIONAL               | MINISTERIO DE<br>EDUCACIÓN Y<br>CIENCIA |
| INGENIERÍA<br>QUÍMICA Y<br>QUÍMICA<br>INORGÁNICA | BLANCO<br>DELGADO,<br>CARMEN             | SÍNTESIS Y<br>APLICACIONES EN<br>ADSORCIÓN Y<br>CATÁLISIS DE<br>NANOMATERIALES<br>SILÍCICOS<br>FUNCIONALIZADOS<br>CON CENTROS ÁCIDOS<br>O BÁSICOS                              | 2006 | 2009 | PLAN NACIONAL               | MINISTERIO DE<br>EDUCACIÓN Y<br>CIENCIA |
| INSTITUTO DE<br>FÍSICA DE<br>CANTABRIA           | GONZÁLEZ<br>SERRANO,<br>JOSÉ<br>IGNACIO  | COSMOLOGÍA<br>OBSERVACIONAL:<br>CUASERES A $Z > 2.5$<br>SELECCIONADOS EN<br>RADIO  | 2005 | 2008 | PLAN NACIONAL               | MINISTERIO DE<br>EDUCACIÓN Y<br>CIENCIA |
| INSTITUTO DE<br>FÍSICA DE<br>CANTABRIA           | RODRIGO<br>ANORO,<br>TERESA              | FÍSICA EN<br>COLISIONADOS<br>HADRÓNICOS (CDF Y<br>CMS)   | 2005 | 2008 | PLAN NACIONAL               | MINISTERIO DE<br>EDUCACIÓN Y<br>CIENCIA |
| INSTITUTO DE<br>FÍSICA DE<br>CANTABRIA           | VALLE<br>GUTIÉRREZ,<br>ÁNGEL             | DESARROLLO DE<br>TÉCNICAS DE BANDA<br>ULTRA-ANCHA<br>MEDIANTE PULSOS<br>GENERADOS POR<br>DIODOS LÁSER:<br>APLICACIONES A LAS<br>COMUNICACIONES<br>ÓPTICAS<br>INALÁMBRICAS- SP2 | 2006 | 2008 | PLAN NACIONAL               | MINISTERIO DE<br>EDUCACIÓN Y<br>CIENCIA |
| INSTITUTO DE<br>FÍSICA DE<br>CANTABRIA           | MATORRAS<br>WEINIG,<br>FRANCISCO         | ADECUACIÓN DE<br>SENSORES DE<br>POSICIÓN<br>SEMITRASPARENTES<br>PARA SISTEMAS<br>INDUSTRIALES DE<br>ALINEACIÓN LASER<br>MULTIPUNTO   | 2007 | 2008 | INVESTIGACIÓN<br>CONTRATADA | METRO<br>SENSORS, S.L.                  |
| INSTITUTO DE                                     | RODRIGO                                  | CONTRIBUCIÓN   | 2007 | 2008 | PLAN NACIONAL               | MINISTERIO DE                           |

|                                  |       |                               |  |   |            |            |                                |   |
|----------------------------------|-------|-------------------------------|--|---|------------|------------|--------------------------------|---|
| FÍSICA DE CANTABRIA              | DE    | ANORO, TERESA                 |  | ESPAÑOLA A LOS GASTOS DE MANTENIMIENTO Y OPERACIÓN DEL DETECTOR CMS   |            |            |                                | EDUCACIÓN Y CIENCIA   |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | MARCO DE LUCAS, JESÚS         |  | DESARROLLO AVANZADO DE UN ENTORNO INTEGRADO DE SIMULACIÓN PARA LA GESTIÓN HIDROBIOLÓGICA EN SISTEMAS DE ABASTECIMIENTO DE AGUA    | 2007       | 2008       | INVESTIGACIÓN CONTRATADA       | ECOHYDROS, S.L.   |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | RUIZ JIMENO, ALBERTO          |  | PARTICIPACIÓN ESPAÑOLA EN LOS FUTUROS ACELERADORES LINEALES PARA ALTAS ENERGÍAS   | 2007       | 2008       | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA   |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | RODRIGO ANORO, TERESA         |  | REPRESENTACIÓN ESPAÑOLA EN LA EUROPEAN PHYSICAL SOCIETY-HIGH ENERGY PARTICLE PHYSICS BOARD  | 2007       | 2009       | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA   |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | RODRIGO ANORO, TERESA         |  | CONTRIBUCIÓN ESPAÑOLA A LOS GASTOS DE MANTENIMIENTO Y OPERACIÓN DEL DETECTOR CMS  | 2007       | 2009       | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA   |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | CARRERA TROYANO, FRANCISCO J. |  | COORDINACIÓN DE LAS ACTIVIDADES CIENTÍFICAS, OBSERVACIONALES, DIDÁCTICAS Y DIVULGATIVAS DEL OBSERVATORIO ASTRONÓMICO DE CANTABRIA | 2007       | 2009       | INVESTIGACIÓN CONTRATADA       | GOBIERNO DE CANTABRIA & CIMA (CENTRO DE INVESTIGACIÓN DEL MEDIO AMBIENTE) |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | MARTÍNEZ GONZÁLEZ, ENRIQUE    |  | ANISOTROPIAS DEL FONDO CÓSMICO DE MICROONDAS: CIENCIA CON EL SATÉLITE PLANCK Y DESARROLLO DE NUEVOS EXPERIMENTOS DE POLARIZACIÓN  | 2007       | 2010       | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA   |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | MARCO DE LUCAS, JESÚS         |  | MANTENIMIENTO DEL NODO ALTAMIRA DE LA RED ESPAÑOLA DE SUPERCOMPUTACIÓN  | 2008       | 2008       | OTRAS CONVOCATORIAS NACIONALES | MINER (MINISTERIO DE INDUSTRIA Y ENERGÍA)                                 |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | MATORRAS WEINIG, FRANCISCO    |  | DESARROLLO Y APLICACIÓN DE UN TIER-2 PARA CMS   | 2007       | 2010       | PLAN NACIONAL                  | MINISTERIO DE EDUCACIÓN Y CIENCIA   |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | MATORRAS WEINIG, FRANCISCO    |  | IMPLANTACIÓN Y CERTIFICACIÓN SEGÚN NORMA ISO9001 DEL LABORATORIO DE METROLOGÍA DEL IFCA   | 2007       | 2007       | IDICAN                         | GOBIERNO DE CANTABRIA   |
| INSTITUTO DE FÍSICA DE CANTABRIA | DE DE | ENRIQUE MARTÍNEZ              |  | DISEÑO Y SIMULACIÓN DE NUEVOS DETECTORES PARA   | 01/01/2008 | 11/02/2009 | INTRAMURAL                     | CSIC  |

|                               |       |                 |   |            |            |                          |                       |
|-------------------------------|-------|-----------------|---|------------|------------|--------------------------|-----------------------|
|                               |       |                 | EXPERIMENTOS DEL FONDO CÓSMICO MOCROONDAS   |            |            |                          |                       |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | CELSO MARTÍNEZ  | REPRESENTACIÓN ESPAÑOLA EN EL ADVISORY COMMITTEE OF CERN USERS  | 03/04/2007 | 02/04/2009 | PLAN NACIONAL            | MEC                   |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | IVÁN VILA       | DETECTOR RESEARCH AND DEVOELPMENT TOWARDS THE INTERNATIONAL LINEAR COLLIDER   | 01/01/2006 | 31/12/2009 |                          | EUROPEAN COMISSION    |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | XAVIER BARCONS  | PARTICIPACIÓN EN LAS MISIONES DE ASTRONOMÍA X DE LA AGENCIA EUROPEA DEL ESPACIO ESA   | 01/10/2006 | 30/09/2009 | PLAN NACIONAL            | MEC                   |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | DIEGO HERRANZ   | COOPERACIÓN PARA EL DESARROLLO  | 01/01/2008 | 31/12/2008 | INTRAMURAL               | CSIC                  |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | JUAN LÓPEZ      | M <sup>a</sup> SIMETRÍAS E INVARIANZA DE ESCALA EN SISTEMAS DINÁMICOS EXTENDIDOS EN EL ESPACIO :ASTECTOS ESTOCÁSTICOS Y NO LINEALES | 01/10/2006 | 30/09/2009 | PLAN NACIONAL            | MEC                   |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | XAVIER BARCONS  | EL ENTORNO DEL AGUJERO NEGRO EN GALAXIAS ACTIVAS ANÓMALAS   | 01/01/2007 | 31/12/2008 | PLAN NACIONAL            | MEC                   |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | JOSE DIEGO      | M <sup>a</sup> COSMOLOGY FROM A JOINT PLANCK-SALT GALAXY CLUSTER SURVEY IN THE SOUTHERN SKY   | 01/01/2007 | 31/12/2008 | PLAN NACIONAL            | MEC                   |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | XAVIER BARCONS  | REUNIÓN DEL CONSEJO DEL OBSERVATORIO EUROPEO AUSTRAL ESO DE BARCELONA   | 01/10/2007 | 30/11/2008 | PLAN NACIONAL            | MEC                   |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | SVEN HEINEMEYER | HIGGS PHENOMONOLOGY AT THE TEVATRON THE LHC AN DEIIC  | 01/08/2007 | 31/12/2008 | INTRAMURAL               | CSIC                  |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | JESÚS MARCO     | DESARROLLO DE LA PLATAFORMA ELECTRÓNICA INTEGRADA EN SONDAS PARA LA MONOTORIZACIÓN DE ENTORNOS MEDIOAMBIENTALES                     | 26/02/2007 | 26/08/2008 | INVESTIGACIÓN CONTRATADA | ECOHYDROS             |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | IVÁN VILA       | I+D EN DETECTORES Y ESTUDIOS FENOMENOLÓGICOS PARA EL COLISIONADOR LINEAL INTERNACIONAL  | 01/10/2007 | 04/10/2010 | PLAN NACIONAL            | MEC                   |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | JESÚS MARCO     | DE CONVOCATORIA DE AYUDAS PARA LA CONTRATACIÓN DE PERSONAL TÉCNICO DE APOYO Y GESTIÓN DE  | 15/11/2007 | 14/11/2010 | IDICAN                   | GOBIERNO DE CANTABRIA |

|                               |       |                |    | ACTIVIDADES DE I+D   |            |            |               |                              |
|-------------------------------|-------|----------------|----|--|------------|------------|---------------|------------------------------|
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | XAVIER BARCONS |    | RED DE INFRAESTRUCTURAS DE ASTRONOMÍA                                | 02/01/2007 | 31/12/2009 | PLAN NACIONAL | MEC                          |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | ISABEL CAMPOS  |    | EU FUSION FOR ITER APLICATTIONS                                      | 01/01/2008 | 31/12/2010 | UNIÓN EUROPEA | COMISIÓN DE LA UNIÓN EUROPEA |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | JESÚS MARCO    |    | DORII  | 01/02/2007 | 31/07/2010 | UNIÓN EUROPEA | COMISIÓN DE LA UNIÓN EUROPEA |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | JESÚS MARCO    | DE | INTERACTIVE EUROPEAN GRID  | 01/05/2006 | 30/04/2008 | UNIÓN EUROPEA | COMISIÓN DE LA UNIÓN EUROPEA |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | JESÚS MARCO    | DE | ENABLING GRIDS FOR E-SCIENCE-II                                      | 01/04/2006 | 30/04/2008 | UNIÓN EUROPEA | COMISIÓN DE LA UNIÓN EUROPEA |
| INSTITUTO DE FÍSICA CANTABRIA | DE DE | IVÁN VILA      |    | I+D PARA DETECTORES DE PARTÍCULAS PARA EL FUTURO COLISIONADOR LINEAL | 01/10/2006 | 30/03/2008 | PLAN NACIONAL | MEC                          |

## 9. PROCESOS ADMINISTRATIVOS

### 9.1. Calendario de Trámites Administrativos

| FASES  | FECHAS                                    |
|--|---|
| · Presentación de Solicitudes (1ª Fase)  | 16 al 22 de septiembre de 2008            |
| · Resolución de Solicitudes  | 23 de septiembre al 10 de octubre de 2008 |
| · Matrícula  | 14 al 24 de octubre de 2008               |
| · Presentación de Solicitudes (2ª Fase)  | 9 al 13 de febrero de 2009                |
| · Resolución de Solicitudes  | 16 al 20 de febrero de 2009               |
| · Matrícula  | 23 al 27 de febrero de 2009               |
| · Presentación de Propuestas de Programas  | 3 de marzo al 4 de abril de 2008          |
| · Modificación y Anulaciones de Matrícula  | Hasta el 28 de noviembre de 2008          |
| · Resolución y Envío de los Impresos (G-H) al Negociado de Tercer Ciclo                        | Hasta el 3 de octubre de 2008             |
| · Resolución y Envío de los Impresos (B-E-F-N)   | Hasta el 10 de noviembre de 2008          |
| · Envío del Informe sobre Titulaciones de Acceso Distintas a las Contempladas en los Programas | Hasta el 10 de noviembre de 2008          |

### 9.2. Direcciones y Personas de Contacto

Coordinador: Francisco Matorras Weinig  
Teléfono: 942201400  
e-mail: ciencias@gestion.unican.es

## **10. PROCEDIMIENTO PARA FORMULAR RECLAMACIONES**

Todas las reclamaciones sobre aspectos concretos de evaluación, sugerencias de mejoras, profesorado, etc se realizarán a través de una instancia en la Secretaría del Decanato de la Facultad de Ciencias, dirigidas al presidente de la Comisión de Postgrado de dicha Facultad y serán tramitadas en esta comisión.