

Experimental Physics

30 nov

Universidad de Valencia's
Parque Científico
 at Cabecera Building (next to IFIC)
 C/ Catedrático José Beltrán, 2(300 m from C9 TVV)

9:00 Welcome and Introduction, Juan José Hernández and Salvador Martí

09:05 ' **Ultra-High Energy Cosmic Rays** ' (40 ')

speaker

Antonio Bueno , University of Granada

09:45 ' **Discovery of the Higgs boson in ATLAS** ' (40 ')

Leandro Nisati , INFN and University of Roma "La Sapienza"

10:30 *Coffee Break*

11:00 ' **Present status and perspectives on nuclear structure and dynamics** ' (40 ')

Rauno Julin , University of Jyväskylä, Finland

11:45 ' **Observing directly the weak arrow of time** ' (40 ')

Fernando Martínez-Vidal, Instituto de Física Corpuscular-IFIC

12:30 *Lunch*

14:00 ' **Neutrino telescopes** ' (30 ')

Juan de Dios Zornoza , IFIC, Valencia

14:35 ' **Recent developments and future prospects of neutrino oscillations** ' (30 ')

Panagiotis Stamoulis , IFIC, Valencia

15:10 ' **The experimental quest for the nature and mass of neutrinos** ' (30 ')

Michel Sorel , IFIC, Valencia

15:45 *Break*

16:15 ' **Nuclear Astrophysics at CERN n-TOF and FAIR NUSTAR** ' (30 ')

César Domingo Pardo , IFIC, Valencia

16:50 ' **The European Strategy in Particle and Astroparticle Physics** ' (30 ')

Juan Fuster , IFIC, Valencia

17:25 *End of the Event*

Event's Conveners : **Juan J. Hernández & Salvador Martí**

Registration is recommended !
 Visit: // vicfa.uv.es

Friday
mini WORKSHOP

23 nov Theoretical Physics II

at Cabecera Building (next to IFIC), Univ.de Valencia's **Parque Científico**

C/ Catedrático José Beltrán, 2 (300 m from C9 TVV)

09:00 - 09:35 ' *Hadron interactions and hadrons and leptons in nuclei* '

speaker

Eulogio Oset, Instituto de Física Corpuscular, Valencia

09:40 - 10:15 ' *Quantum field theory and extreme gravity* '

José Navarro, Instituto de Física Corpuscular, Valencia

10:20 - 10:55 ' *Looking for magnetic monopoles at LHC with diphoton events* '

Vicente Vento, Instituto de Física Corpuscular, Valencia

11:00 - 11:30 *Coffee Break*

11:30 - 12:05 ' *Strong electroweak symmetry breaking at the LHC era* '

José Santiago, Universidad de Granada

12:10 - 12:35 ' *Sommerfeld enhancement in neutralino dark matter* '

Pedro Ruiz, Instituto de Física Corpuscular, Valencia

12:40 - 13:15 ' *Top quark physics at colliders* '

Germán Rodrigo, Instituto de Física Corpuscular, Valencia

Lunch

15:00 - 15:35 ' *Recent topics in heavy-quark flavour physics* '

Martin Jung, University of Dortmund, Germany

15:40 - 16:15 ' *Beyond Standard Model avenues through vector-like quarks* '

Miguel Nebot, Instituto de Física Corpuscular, Valencia

16:20 - 16:55 ' *Time Reversal Violation for Entangled Neutral Mesons* '

José Bernabéu, Instituto de Física Corpuscular, Valencia

17:00 *End of the Event*

Event's Convener: **Antonio Pich**

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Friday
mini WORKSHOP

16 nov Theoretical Physics

at Cabecera Building (next to IFIC), Univ.de Valencia's **Parque Científico**

C/ Catedrático José Beltrán, 2 (300 m from C9 TVV)

09:00 - 09:15	Welcome & Introduction José Bernabeu Alberola & Jose Valle
09:15 - 10:00	' Flavour symmetry models after Daya Bay and RENO ' speaker Steve King , University of Southampton, UK
10:00 - 10:45	' Absolute neutrino mass scale & Flavour Symmetry ' Stefano Morisi , University of Wurzburg, Germany
10:45 - 11:15	Coffee Break
11:15 - 11:50	' Bilinear R-parity violation with flavor symmetry ' Avelino Vicente , U. Paris Sud ,Lab. de Physique Th. d'Orsay ,CNRS
11:50 - 12:25	' Dark Matter ' Roberto Lineros , Instituto de Física Corpuscular, Valencia
12:25 - 13:00	' Global fits in Supersymmetry ' R. Ruiz de Austri , Instituto de Física Corpuscular, Valencia
Lunch	
15:00 - 15:30	' Using effective Lagrangians to model neutrinoless double beta decay and neutrino masses ' A. Aparici Benages , Instituto de Física Corpuscular, Valencia
15:30 - 16:00	' Neutral meson oscillations in the Standard Model and Beyond from $N_f=2$ Twisted Mass Lattice QCD ' Nuria Carrasco Vela , Instituto de Física Corpuscular, Valencia
16:00 - 16:30	' New Physics searches with 7Be Solar Neutrinos ' Sanjib Agarwalla , Instituto de Física Corpuscular, Valencia
16:30 - 17:15	' Finite Unified Theories and the prediction of the Higgs boson mass ' George Zoupanos , National Technical University of Athens
17:15 - 17:45	Round table and End of the Event

Event's Convener: **Jose Valle**

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Friday
mini WORKSHOP

9 nov Medical Physics

and some related fields

at Univ. de Valencia's Parque Científico; **IATA** 's Conference Room
Av.Catedrático Agustín Escardino,7; (300 m from Canal 9 TVV)

09:00 - 09:15	Welcome and Introduction	M. Rafecas / A. Faus
09:15 - 10:00	'Accelerators for Hadrontherapy '	
	<i>speaker</i>	Silvia Verdú Inst. de Física Corpuscular, Valencia / TERA Foundation, Italy
10:00 - 10:45	'Detectors for Medical Imaging Devices '	
		Carlos Lacasta Instituto de Física Corpuscular, Valencia
10:45 - 11:15	<i>Coffee Break</i>	
11:15 - 12:00	Inverse Problems in medical imaging: exploiting physics towards better images	
		Magdalena Rafecas Instituto de Física Corpuscular, Valencia
12:00 - 12:45	'Dose Errors and Computation Time '	
		Gabriel Amorós Instituto de Física Corpuscular, Valencia
12:45 - 13:30	'Pattern Redundancy: A new framework for Medical Imaging '	
		Jose V. Manjón Herrera Applied Physics Dept.; IBIME research group, Medical Imaging Area, ITACA institute, Universidad Politécnica de Valencia
<i>Lunch</i>		
15:00 - 15:45	'Biomarkers for Medical Imaging '	
		Luis Martí-Bonmatí Dept. Hospital Universitari i Politécnic La Fe, Valencia
15:45 - 16:30	'Radiolabelled Nanoparticles: physicochemical aspects and applications '	
		Jordi Llop Molecular Imaging Unit, CIC biomaGUNE, San Sebastián
16:45 - 17:05	'Smart Materials: Nanobiomagnetism '	
		Sara García Gil-Perotín Laboratorio de Neurobiología Comparada/Grupo de Hematología y Hemoterapia Hospital La Fe; Instituto Cavanilles de Biodiversidad y Biología Evolutiva/ Fundación para la Investigación La Fe, Valencia
17:05 - 17:25	'Classical Localized Irradiation affects adult neurogenic niches '	
		Arantxa Cebrián Silla Institut Cavanilles de Biodiversitat i Biologia Evolutiva Univ.de Valencia.
17:25 - 18:00	Round table and End the Event	

Event's Conveners: **Magdalena Rafecas** & **A. Faus**

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Friday
19 Oct

mini WORKSHOP on

ASTRONOMY

 in Burjassot (Valencia), at **Facultad de Farmacia** 's Salón Grados

09:00 - 09:45	'The neutron star zoo'
<i>speaker</i>	N. Rea (IEEC - CSIC, Barcelona)
09:45 - 10:15	'Evolution of a strongly magnetized NS from its birth to old age '
	José A. Pons (Dept. of Applied Physics – UA)
10:15 - 10:45	'Simulations of neutron star mergers and black hole-torus systems '
	José A. Font (Dept. of Astronomy and Astrophysics –UVEG)
10:45 - 11:15	Coffee Break
11:15 - 12:00	'Exploring the $z \sim 10$ Universe through Massive Cosmic Lenses'
	A. Molino (IAA - CSIC, Granada)
12:00 - 12:30	'Real and virtual galaxies'
	V. Quilis (Dept. of Astronomy and Astrophysics –UVEG)
12:30 - 13:00	'Relativistic outflows in active galaxies and binary stars'
	M. Perucho (Dept. of Astronomy and Astrophysics –UVEG)
Lunch
15:00 - 15:30	'Cosmic Photometric Surveys: ALHAMBRA and J-PAS'
	A. Fernández-Soto (IFCA, CSIC - UC, Santander)
15:30 - 16:00	'The H-alpha photometric surveys of the galactic plane: IPHAS & VPHAS+ '
	J. Fabregat (Dept. of Astronomy and Astrophysics –UVEG)
16:00 - 16:30	'Supermassive Black Holes and Active Galactic Nuclei '
	E. Ros (Dept. of Astronomy and Astrophysics –UVEG)
16:30 - 17:00	'Frontiers of Interferometry'
	J. C. Guirado (Dept. of Astronomy and Astrophysics –UVEG)
17:00 - 18:00	Round table (end of event at 18:15)

 Event's **Conveners**: Jose M^a Ibañez & Vicent J. Martínez

 Registration is recommended!
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Friday **5 October**, 2012

Mini-WORKSHOP on **Supercomputing and GRID**

At 'Salón de Grados de la **Facultad de Matemáticas**' *

C/ Dr Moliner ,50. Burjassot (VALENCIA)

* Depending on attendance it may be held at Facultad de Farmacia

8.55 : **Presentation of IVICFA**, José Bernabeu Alberola

09:00 - 09:45	'Petabyte scale computing for the LHC' <i>speaker</i> Ian Bird (CERN), Project Leader of the Worldwide LHC Computing GRID (WLCG)
09:45 - 10:15	'Supercomputing resources in RES & PRACE infrastructures' David Vicente , Barcelona Supercomputing Center (BSC-CNS)
10:15 - 10:45	'ATLAS Spanish Tier2 contribution for the LHC data taking' Santiago Gonzalez de la Hoz , Instituto de Física Corpuscular (IFIC)
10:45 - 11:15	Coffee Break
11:15 - 12:00	'Modeling complex solar magnetodynamical phenomena using supercomputing and visualization techniques' Fernando Moreno Insertis , (IAC) PI of the European Solaire network.
12:00 - 12:30	'GRID Infrastructures at IFIC: the Spanish ATLAS Tier-2 and GRID-CSIC' Fco. Javier Sánchez Martínez , Instituto de Física Corpuscular (IFIC)
12:30 - 13:00	'Bringing Light from Virtual Jets to Virtual Detectors' Petar Mimica , Department of Astronomy and Astrophysics (UVEG)
Lunch
14:30 - 15:00	'Middleware challenges for the LHC Computing GRID' Alvaro Fernandez Casani , Instituto de Física Corpuscular (IFIC)
15:00 - 15:30	'Multidimensional neutrino magnetohydrodynamics' Martin Obergaulinger , Department of Astronomy and Astrophysics (UVEG)
15:30 - 16:00	'Porting of Scientific Applications to GRID Computing and e-Science Environment' José Francisco Salt Cairols , Instituto de Física Corpuscular (IFIC)
16:00 - 16:30	'Parallel Performance improvements in MRGENESIS and RATPENAT' Carmen Aloy , Department of Astronomy and Astrophysics (UVEG)
16:30 - 17:30	Round table. and End of the event

Event's **Chairmen**: José Bernabeu , Miguel A. Aloy & José Fco. Salt Cairols

Event's **Conveners**: Miguel Angel Aloy & José Fco. Salt Cairols

Registration is recommended !
Visit: // ivicfa.uv.es