

# Welcome to DISCRETE'08

## DISCRETE '08 Symposium Prospects in the Physics of Discrete Symmetries

11 – 16 December 2008, IFIC, Valencia, Spain



### Topics

- The Quantum Vacuum
- Entanglement, Symmetrisation Principle
- CPT in Quantum Gravity and String Theory, Decoherence, Lorentz Violation
- Ultra-high-energy Physics Messengers
- Time Reversal
- CP Violation: CKM and Beyond
- Neutrino Mass, Mixing and CP
- Baryogenesis, Leptogenesis
- Family Symmetries
- Supersymmetry: LHC vs Dark Matter Studies
- Experimental Prospects: LHC, Super-B, DAΦNE-2, Neutrino Beams

### Call for Abstracts

Submission deadline:  
17 October 2008

### Proceedings

Electronic publication in:  
"Journal of Physics:  
Conference Series"

### International Advisory Committee

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### Secretariat

Maria Teresa Andreu  
Ana Sanmatias  
Tel: +34 963543848  
+34 963543330  
Fax: +34 963543488  
E-mail: [discrete@ific.uv.es](mailto:discrete@ific.uv.es)  
Web page: <http://ific.uv.es/discrete08>



Francisco J. Botella, Director of IFIC



# IFIC

- IFIC: “Instituto de Física Corpuscular”, a joint venture of two Institutions:
  - UVEG Universitat de València
  - CSIC, Spanish Research Council
- Founded in 1950, pioneer Institute in Experimental Particle Physics in Spain
- 200 people (64 students, 37 posdocs, 56 scientific staff and 43 support).





# IFIC

## Research lines:

### ■ Theory:

- High Energy Physics Phenomenology
- Q.C.D., Hadron Physics, ...
- Theoretical Nuclear Physics
- Mathematical and Theoretical High Energy Physics
- Astroparticle Physics and Cosmology

### ■ Experiment

- Accelerator based Experimental High Energy Physics
- Astroparticle and Neutrino Physics
- Experimental Nuclear Physics
- Medical Physics Applications
- GRID and e-Science in Physics

# Experimental Division

## High Energy Physics

- LEP-Delphi
- LHC-ATLAS:
  - TiCal
  - SCT
  - GRID (GRID-CSIC)
- Neutrino Physics K2K, T2K, (Canfranc Laboratory)
- Antares, Km3Net
- BaBar and CDF
- Accelerator Physics
- Detector R&D

## Nuclear Physics

- $\gamma$ -Spectroscopy
- nTOF
- FAIR
- Hades, TAPS
- Integral

## Medical Applications

- Compton Imaging
- Brachytherapy
- Nuclear Medicine
- IFIMED





# Welcome to DISCRETE'08 and enjoy Valencia

