

Memoria Grupo AHEP 2018

Más información en: <http://astroparticles.es>

Organización de conferencias y participación en comités

- Workshop **The quest for new physics**
Casa de la Ciencia del CSIC, Valencia, 12-14 diciembre
<https://indico.ific.uv.es/event/3485/>
70 participantes, 37 charlas

Publicaciones en revistas indexadas en Web of Science en 2018

1. *$U(1)_{B_3-3L_2}$ gauge symmetry as a simple description of $b \rightarrow s$ anomalies*
C. Bonilla, T. Modak, **R. Srivastava** y **J.W.F. Valle**
Physical Review D **98** (2018) 095002 (arXiv:1705.00915)
DOI: 10.1103/PhysRevD.98.095002
2. *Enhanced neutrino emissivities in pseudoscalar-mediated dark matter annihilation in neutron stars*
M. Cermeño, M.A. Pérez-García y **R.A. Lineros**
Astrophysical Journal **853** (2018) 157 (arXiv:1705.03012)
DOI: 10.3847/1538-4357/aad1ec
3. *The Constrained NMSSM with right-handed neutrinos*
D.G. Cerdeño, **V. De Romeri**, V. Martín-Lozano, K.A. Olive, O. Seto
European Physical Journal C **78** (2018) 290 (arXiv:1707.03990)
DOI: 10.1140/epjc/s10052-018-5689-0
4. *Status of neutrino oscillations 2018: 3σ hint for normal mass ordering and improved CP sensitivity*
P.F. de Salas, D.V. Forero, **C.A. Ternes**, **M. Tórtola** y **J.W.F. Valle**
Physics Letters B **782** (2018) 633-640 (arXiv:1708.01186)
DOI: 10.1016/j.physletb.2018.06.019
5. *Lepton number violation phenomenology of $d=7$ neutrino mass models*
R. Cepedello, **M. Hirsch** y J.C. Helo
Journal of High Energy Physics **01** (2018) 009 (arXiv:1709.03397)
DOI: 10.1007/JHEP01(2018)009
6. *Quasi-Dirac neutrino oscillations*
G. Anamiati, **M. Hirsch** y **R.M. Fonseca**
Physical Review D **97** (2018) 095008 (arXiv:1710.06249)
DOI: 10.1103/PhysRevD.97.095008
7. *Flavour-symmetric type-II Dirac neutrino seesaw mechanism*
C. Bonilla, J.M. Lamprea, E. Peinado y **J.W.F. Valle**

- Physics Letters B **779** (2018) 257-261 (arXiv:1710.06498)
DOI: 10.1016/j.physletb.2018.02.022
8. *The dark side of flipped trinification*
P.V. Dong, D.T. Huong, F.S. Queiroz, **J.W.F. Valle** y C.A. Vaquera-Araujo
Journal of High Energy Physics **04** (2018) 143 (arXiv:1710.06951)
DOI: 10.1007/JHEP04(2018)143
 9. *Neutrino oscillations and Non-Standard Interactions*
Y. Farzan y **M. Tórtola**
Frontiers in Physics **6** (2018) 10 (arXiv:1710.09360)
DOI: 10.3389/fphy.2018.00010
 10. *Effective alignments as building blocks of flavour models*
I. de Medeiros Varzielas, **T. Neder** y Ye-Ling Zhou
Physical Review D **97** (2018) 115033 (arXiv:1711.05716)
DOI: 10.1103/PhysRevD.97.115033
 11. *Can one ever prove that neutrinos are Dirac particles?*
M. Hirsch, **R. Srivastava** y **J.W.F. Valle**
Physics Letters B **781** (2018) 302-305 (arXiv:1711.06181)
DOI: 10.1016/j.physletb.2018.03.073
 12. *Neutrinoless double beta decay and QCD running at low energy scales*
M. González, **M. Hirsch** y S. Kovalenko
Physical Review D **97** (2018) 115005 (arXiv:1711.08311)
DOI: 10.1103/PhysRevD.97.115005
 13. *Testing a lepton quarticity flavor theory of neutrino oscillations with the DUNE experiment*
R. Srivastava, **C.A. Ternes**, **M. Tórtola** y **J.W.F. Valle**
Physics Letters B **778** (2018) 459-463 (arXiv:1711.10318)
DOI: 10.1016/j.physletb.2018.01.014
 14. *Neutrinos, DUNE and the world best bound on CPT invariance*
G. Barenboim, **C.A. Ternes** y **M. Tórtola**
Physics Letters B **780** (2018) 631-637 (arXiv:1712.01714)
DOI: 10.1016/j.physletb.2018.03.060
 15. *Was there an early reionization component in our universe?*
P. Villanueva-Domingo, **S. Gariazzo**, N.Y. Gnedin y O. Mena
Journal of Cosmology and Astroparticle Physics **04** (2018) 024 (arXiv:1712.02807)
DOI: 10.1088/1475-7516/2018/04/024
 16. *Effective Majorana mass matrix from tau and pseudoscalar meson lepton number violating decays*
A. Abada, **V. De Romeri**, M. Lucente, A.M. Teixeira y T. Toma
Journal of High Energy Physics **02** (2018) 169 (arXiv:1712.03984)
DOI: 10.1007/JHEP02(2018)169
 17. *PARthENoPE reloaded*
R. Consiglio, **P.F. de Salas**, G. Mangano, G. Miele, **S. Pastor** y O. Pisanti

- Computer Physics Communications **233** (2018) 237-242 (arXiv:1712.04378)
DOI: 10.1016/j.cpc.2018.06.022
18. *WCxf: an exchange format for Wilson coefficients beyond the Standard Model*
J. Aebischer et al [incluye a **A. Vicente**]
Computer Physics Communications **232** (2018) 71-83 (arXiv:1712.05298)
DOI: 10.1016/j.cpc.2018.05.022
 19. *Searches for light sterile neutrinos with multitrack displaced vertices*
G. Cottin, J.C. Helo y **M. Hirsch**
Physical Review D **97** (2018) 055025 (arXiv:1801.02734)
DOI: 10.1103/PhysRevD.97.055025
 20. *Neutrino masses and their ordering: Global Data, Priors and Models*
S. Gariazzo, M. Archidiacono, **P.F. de Salas**, O. Mena, **C.A. Ternes** y **M. Tórtola**
Journal of Cosmology and Astroparticle Physics **03** (2018) 011 (arXiv:1801.04946)
DOI: 10.1088/1475-7516/2018/03/011
 21. *Model-independent $\bar{\nu}_e$ short-baseline oscillations from reactor spectral ratios*
S. Gariazzo, C. Giunti, M. Laveder y Y.F. Li
Physics Letters B **782** (2018) 13-21 (arXiv:1801.06467)
DOI: 10.1016/j.physletb.2018.04.057
 22. *Exploring the potential of short-baseline physics at Fermilab*
O.G. Miranda, P. Pasquini, **M. Tórtola** y **J.W.F. Valle**
Physical Review D **97** (2018) 095026 (arXiv:1802.02133)
DOI: 10.1103/PhysRevD.97.095026
 23. *Neutrino Predictions from Generalized CP Symmetries of Charged Leptons*
P. Chen, **S. Centelles Chuliá**, G.J. Ding, **R. Srivastava** y **J.W.F. Valle**
Journal of High Energy Physics **07** (2018) 077 (arXiv:1802.04275)
DOI: 10.1007/JHEP07(2018)077
 24. *Cosmological bounds on neutrino statistics*
P.F. de Salas, **S. Gariazzo**, M. Laveder, **S. Pastor**, O. Pisanti y N. Truong
Journal of Cosmology and Astroparticle Physics **03** (2018) 050 (arXiv:1802.04639)
DOI: 10.1088/1475-7516/2018/03/050
 25. *$\Delta L = 3$ processes: Proton decay and the LHC*
R.M. Fonseca, **M. Hirsch** y **R. Srivastava**
Physical Review D **97** (2018) 075026 (arXiv:1802.04814)
DOI: 10.1103/PhysRevD.97.075026
 26. *Seesaw roadmap to neutrino mass and dark matter*
S. Centelles Chuliá, **R. Srivastava** y **J.W.F. Valle**
Physics Letters B **781** (2018) 122-128 (arXiv:1802.05722)
DOI: 10.1016/j.physletb.2018.03.046
 27. *Proton decay and light sterile neutrinos*
J.C. Helo, **M. Hirsch** y T. Ota

- Journal of High Energy Physics **06** (2018) 047 (arXiv:1803.00035)
DOI: 10.1007/JHEP06(2018)047
28. *Heavy neutral fermions at the high-luminosity LHC*
J.C. Helo, **M. Hirsch** y Z.S. Wang
Journal of High Energy Physics **07** (2018) 056 (arXiv:1803.02212)
DOI: 10.1007/JHEP07(2018)056
29. *Anomalies in $b \rightarrow s$ transitions and dark matter*
A. Vicente
Advances in High Energy Physics **2018** (2018) 3905848 (arXiv:1803.04703)
DOI: 10.1155/2018/3905848
30. *Decaying warm dark matter and structure formation*
Jui-Lin Kuo, M. Lattanzi, K. Cheung y **J.W.F. Valle**
Journal of Cosmology and Astroparticle Physics **12** (2018) 026 (arXiv:1803.05650)
DOI: 10.1088/1475-7516/2018/12/026
31. *Bound-state dark matter and Dirac neutrino mass*
M. Reig, D. Restrepo, **J.W.F. Valle** y O. Zapata
Physical Review D **97** (2018) 115032 (arXiv:1803.08528)
DOI: 10.1103/PhysRevD.97.115032
32. *Zooming in on neutrino oscillations with DUNE*
R. Srivastava, **C.A. Ternes**, **M. Tórtola** y **J.W.F. Valle**
Physical Review D **97** (2018) 095025 (arXiv:1803.10247)
DOI: 10.1103/PhysRevD.97.095025
33. *Seesaw Dirac neutrino mass through dimension-six operators*
S. Centelles Chuliá, **R. Srivastava** y **J.W.F. Valle**
Physical Review D **98** (2018) 035009 (arXiv:1804.03181)
DOI: 10.1103/PhysRevD.98.035009
34. *EDGES result versus CMB and low-redshift constraints on ionization histories*
S. Witte, P. Villanueva-Domingo, **S. Gariazzo**, O. Mena y S. Palomares-Ruiz
Physical Review D **97** (2018) 103533 (arXiv:1804.03888)
DOI: 10.1103/PhysRevD.97.103533
35. *$\Delta L \geq 4$ lepton number violating processes*
R.M. Fonseca y **M. Hirsch**
Physical Review D **98** (2018) 015035 (arXiv:1804.10545)
DOI: 10.1103/PhysRevD.98.015035
36. *$SO(3)$ family symmetry and axions*
M. Reig, **J.W.F. Valle** y F. Wilczek
Physical Review D **98** (2018) 095008 (arXiv:1805.08048)
DOI: 10.1103/PhysRevD.98.095008
37. *Realistic tribimaximal neutrino mixing*
P. Chen, **S. Centelles Chuliá**, G.J. Ding, **R. Srivastava** y **J.W.F. Valle**

- Physical Review D **98** (2018) 055019 (arXiv:1806.03367)
DOI: 10.1103/PhysRevD.98.055019
38. *Displaced vertices as probes of sterile neutrino mixing at the LHC*
G. Cottin, J.C. Helo y **M. Hirsch**
Physical Review D **98** (2018) 035012 (arXiv:1806.05191)
DOI: 10.1103/PhysRevD.98.035012
39. *High-dimensional neutrino masses*
G. Anamiati, O. Castillo-Felisola, R.M. Fonseca, J.C. Helo y **M. Hirsch**
Journal of High Energy Physics **12** (2018) 066 (arXiv:1806.07264)
DOI: 10.1007/JHEP12(2018)066
40. *COHERENT analysis of neutrino generalized interactions*
D. Aristizábal Sierra, **V. De Romeri** y N. Rojas
Physical Review D **98** (2018) 075018 (arXiv:1806.07424)
DOI: 10.1103/PhysRevD.98.075018
41. *Neutrino Mass Ordering from Oscillations and Beyond: 2018 Status and Future Prospects*
P.F. de Salas, **S. Gariazzo**, O. Mena, **C.A. Ternes** y **M. Tórtola**
Frontiers in Astronomy and Space Science **5** (2018) 36 (arXiv:1806.11051)
DOI: 10.3389/fspas.2018.00036
42. *Systematic classification of three-loop realizations of the Weinberg operator*
R. Cepedello, R.M. Fonseca y **M. Hirsch**
Journal of High Energy Physics **10** (2018) 197 (arXiv:1807.00629)
DOI: 10.1007/JHEP10(2018)197
43. *Inverse seesaw mechanism with compact supersymmetry: Enhanced naturalness and light superpartners*
V. De Romeri, K.M. Patel y **J.W.F. Valle**
Physical Review D **98** (2018) 075014 (arXiv:1808.01453)
DOI: 10.1103/PhysRevD.98.075014

Ponencias y comunicaciones a congresos

1. *Neutrinos and the current landscape of particle physics*
J.W.F. Valle
XXIV Cracow EPIPHANY Conference on Advances in Heavy Flavour Physics
Cracovia (Polonia), 9-12 enero
2. *Non-standard interactions: constraints and prospects*
M. Tórtola
Neutrino Platform Week
CERN, Ginebra (Suiza), 29 enero – 2 febrero
3. *CPT Violation, DUNE and Neutrinos*
C.A. Ternes
DUNE Collaboration Meeting
CERN, Ginebra (Suiza), 29 enero – 2 febrero

4. *Autostati di massa dei neutrini e il loro ordine: un approccio Bayesiano*
S. Gariazzo
Incontri di Fisica delle Alte Energie (IFAE 2018)
Milán (Italia), 4-6 abril
5. *SO(3) family symmetry, the axion and the flavor puzzle*
M. Reig
21st Int. Conference From the Planck Scale to Electroweak Scale (PLANCK 2018)
Bonn (Alemania), 21-25 mayo
6. *Dirac neutrinos and its many surprising connections*
R. Srivastava
21st Int. Conference From the Planck Scale to Electroweak Scale (PLANCK 2018)
Bonn (Alemania), 21-25 mayo
7. *Seesaw roadmap to neutrino masses*
S. Centelles
21st Int. Conference From the Planck Scale to Electroweak Scale (PLANCK 2018)
Bonn (Alemania), 21-25 mayo
8. *What cosmology can say about neutrino mass ordering and additional neutrinos*
S. Gariazzo
VI Meeting on Fundamental Cosmology
Granada, 28-30 mayo
9. *Quasi Dirac neutrino oscillations*
G. Anamiati
MASS2018: Origin of Mass at the High Energy and Intensity Frontier
Odense (Dinamarca), 28 mayo - 1 junio
10. *The global three-neutrino picture before DUNE*
M. Tórtola
XXVIII Int. Conference on Neutrino Physics and Astrophysics (Neutrino 2018)
Heidelberg (Alemania), 4-9 junio
11. *Model-independent electron antineutrino short-baseline oscillations from reactor spectral ratios (póster)*
S. Gariazzo
XXVIII Int. Conference on Neutrino Physics and Astrophysics (Neutrino 2018)
Heidelberg (Alemania), 4-9 junio
12. *Local density of relic neutrinos and its implications for PTOLEMY (póster)*
P. Fernández de Salas
XXVIII Int. Conference on Neutrino Physics and Astrophysics (Neutrino 2018)
Heidelberg (Alemania), 4-9 junio
13. *Neutrinos, DUNE and the world best bound on CPT invariance (póster)*
C.A. Ternes
XXVIII Int. Conference on Neutrino Physics and Astrophysics (Neutrino 2018)
Heidelberg (Alemania), 4-9 junio

14. *Dark radiation candidates: light sterile neutrinos and thermal axions*
S. Gariazzo
COSMOS meeting on Astroparticle and Fundamental Physics with the CMB
Ferrara (Italia), 26-27 junio
15. *The effective number of neutrinos: standard and non-standard scenarios*
S. Pastor
COSMOS meeting on Astroparticle and Fundamental Physics with the CMB
Ferrara (Italia), 26-27 junio
16. *Realistic estimation for the detectability of dark matter subhalos using Fermi-LAT catalogs*
V. De Romeri
Halo Substructure and Dark Matter Searches
IFT Madrid, 27-29 junio
17. *Neutrino properties and the cosmological tensions in the Λ CDM model*
S. Gariazzo
15th Marcel Grossmann Meeting - MG15
Roma (Italia), 1-7 julio
18. *Neutrinos updated*
J.W.F. Valle
7th Workshop on flavor symmetries and consequences in accelerators and cosmology (FLASY18)
Basilea (Suiza), 2-5 julio
19. *Pathways to Dirac neutrinos*
R. Srivastava
7th Workshop on flavor symmetries and consequences in accelerators and cosmology (FLASY18)
Basilea (Suiza), 2-5 julio
20. *Seesaw models for Dirac neutrinos*
S. Centelles
7th Workshop on flavor symmetries and consequences in accelerators and cosmology (FLASY18)
Basilea (Suiza), 2-5 julio
21. *Three-loop neutrino masses*
R. Cepelledo
7th Workshop on flavor symmetries and consequences in accelerators and cosmology (FLASY18)
Basilea (Suiza), 2-5 julio
22. *Flavor and dark matter connection*
A. Vicente
16th Conference on Flavor Physics and CP Violation (FPCP 2018)
Hyderabad (India), 14-18 julio
23. *DUNE and CPT-violating neutrinos*
C.A. Ternes
20th International Workshop on Neutrinos from Accelerators (NUFACT 2018)
Blacksburg (Estados Unidos), 12-18 agosto

24. *Global analysis of neutrino oscillation experiments*
C.A. Ternes
20th International Workshop on Neutrinos from Accelerators (NUFACT 2018)
Blacksburg (Estados Unidos), 12-18 agosto
25. *COHERENT constraints on generalised neutrino-quark interactions*
V. De Romeri
TeV Particle Astrophysics conference (TeVPA 2018)
Berlín (Alemania), 27-31 agosto
26. *Neutrino masses and mixings: Theory challenges*
J.W.F. Valle
10th Neutrino Oscillation Workshop (NOW 2018)
Ostuni (Italia), 9-16 septiembre
27. *SO(3) family symmetry and axions*
M. Reig
Flavour and Dark Matter 2018
Karlsruhe (Alemania), 24-26 septiembre
28. *The $b \rightarrow s$ anomalies and dark matter*
A. Vicente
Flavour and Dark Matter 2018
Karlsruhe (Alemania), 24-26 septiembre
29. *Dirac neutrinos and dark matter*
S. Centelles
Flavour and Dark Matter 2018
Karlsruhe (Alemania), 24-26 septiembre
30. *Theory Overview on Neutrino Physics*
J.W.F. Valle
The Future of Particle Physics: A Quest for Guiding Principles
Karlsruhe (Alemania), 1-2 octubre
31. *Neutrinos and cosmology*
S. Gariazzo
European Neutrino Town meeting
CERN, Ginebra (Suiza), 22-24 octubre
32. *Status of three-neutrino mixing*
C.A. Ternes
RENATA meeting at the X CPAN days
Salamanca, 29-31 octubre
33. *Light sterile neutrinos: the 2018 status*
S. Gariazzo
RENATA meeting at the X CPAN days
Salamanca, 29-31 octubre

34. *Spontaneous proton decay and the origin of Peccei-Quinn symmetry*
M. Reig
X CPAN days
Salamanca, 29-31 octubre
35. *Light sterile neutrinos: the 2018 status*
S. Gariazzo
Workshop: The Magnificent CEvENS (coherent elastic neutrino-nucleus scattering)
Chicago (Estados Unidos), 2-3 noviembre
36. *Probing the intrinsic Lorentz violating parameters at DUNE*
M. Masud
6th Symposium on Prospects in the Physics of Discrete Symmetries (DISCRETE 2018)
Viena (Austria), 26-30 noviembre
37. *Lepton mixing predictions from generalized CP symmetries*
S. Centelles
6th Symposium on Prospects in the Physics of Discrete Symmetries (DISCRETE 2018)
Viena (Austria), 26-30 noviembre
38. *Global overview on neutrino masses, mixings and CP violation*
M. Tórtola
6th Symposium on Prospects in the Physics of Discrete Symmetries (DISCRETE 2018)
Viena (Austria), 26-30 noviembre
39. *Master Majorana neutrino mass parametrization*
A. Vicente
6th Symposium on Prospects in the Physics of Discrete Symmetries (DISCRETE 2018)
Viena (Austria), 26-30 noviembre
40. *Neutrinos: Where to go from here?*
J.W.F. Valle
H2020 Oscillation physics Workshop
Valencia, 28-29 noviembre
41. *Neutrino masses and mixings from global fits to oscillation data*
M. Tórtola
H2020 Oscillation physics Workshop
Valencia, 28-29 noviembre
42. *Status of neutrino oscillations with a light sterile*
C.A. Ternes
H2020 Oscillation physics Workshop
Valencia, 28-29 noviembre
43. *Global Fits with Sterile Neutrinos and NSI*
C.A. Ternes
Physics Opportunities in the Near DUNE Detector Hall (PONDD)
Fermilab (Estados Unidos), 3-7 diciembre

44. *Neutrinos: las partículas fantasmas*
V. De Romeri
V Encuentro de Investigadores Emergentes
Univ. Católica del Norte, Antofagasta (Chile), 13-14 diciembre
45. *Global fits to neutrino data: first hints on mass ordering and CP violation*
M. Tórtola
NuPhys2018: Prospects in Neutrino Physics
Londres (Reino Unido), 19-21 diciembre

Proceedings publicados

1. *SU(6) Grand Unification of 3-3-1 Model*
F.F. Deppisch, C. Hati, S. Patra, U. Sarkar y J.W.F. Valle
XXII DAE High Energy Physics Symposium
Delhi (India), 12-16 diciembre 2016
Springer Proceedings in Physics **203** (2018) 377-380
2. *Impact of New Physics on CP-Asymmetries at Long Baselines*
J. Rout, M. Masud y P. Mehta
XXII DAE High Energy Physics Symposium
Delhi (India), 12-16 diciembre 2016
Springer Proceedings in Physics **203** (2018) 795-797
3. *Probing Wrong-Sign hbb Couplings in $h \rightarrow \Upsilon\gamma$*
T. Modak, J.C. Romão, R. Srivastava y S. Sadhukhan
XXII DAE High Energy Physics Symposium
Delhi (India), 12-16 diciembre 2016
Springer Proceedings in Physics **203** (2018) 873-875
4. *Neutrino mass eigenstates and their ordering: a Bayesian approach*
S. Gariazzo
Incontri di Fisica delle Alte Energie (IFAE 2018)
Milán (Italia), 4-6 abril 2018
arXiv:1806.11344
5. *Neutrino masses and mixings: Theory challenges*
J.W.F. Valle
10th Neutrino Oscillation Workshop (NOW 2018)
Ostuni (Italia), 9-16 septiembre
PoS(NOW2018)022

Tesis doctorales

1. *Neutrino physics from cosmological observables and oscillation experiments*
Pablo Fernández de Salas
Universidad de Valencia
Dirigida por Sergio Pastor
Fecha lectura: 5 octubre

2. *Phenomenology of Quasi-Dirac neutrinos and a study of high-dimensional neutrino masses*
Gaetana Anamiati
Universidad de Valencia
Dirigida por Martin Hirsch
Fecha lectura: 3 diciembre

Cursos impartidos

1. *Neutrino course*
M. Tórtola
Curso para estudiantes de doctorado (2 horas)
XLVI International Meeting on Fundamental Physics
Salamanca, 9-13 abril
2. *Neutrino overview*
M. Tórtola
Curso para estudiantes de doctorado (3 horas)
8th IDPASC School
Valencia, 21-31 mayo
3. *Hands on cosmology*
S. Gariazzo
Curso para estudiantes de doctorado (2 horas)
8th IDPASC School
Valencia, 21-31 mayo
4. *Neutrinos in cosmology*
S. Pastor
Curso para estudiantes de doctorado (3 horas)
8th IDPASC School
Valencia, 21-31 mayo
5. *Introduction to B physics anomalies*
A. Vicente
Curso para estudiantes de doctorado y postdocs (3 horas)
Post-FPCP 2018 school
Hyderabad (India), 19-22 julio
6. *Neutrino physics*
M. Tórtola
Curso para estudiantes de doctorado (3.5 horas)
TAE International Summer Workshop on High Energy Physics
Benasque, 3-14 septiembre
7. *Neutrino cosmology*
S. Pastor
Curso para estudiantes de máster (2 horas)
Máster en Física de Partículas y del Cosmos (UIMP-Univ. Cantabria-CSIC)
Santander, 25 octubre

Coloquios y seminarios impartidos

- *Bayesian model comparison applied to neutrino masses and their ordering*
S. Gariazzo
IFIC Valencia, 26 enero
- *Majorana neutrinos and lepton number violation*
M. Hirsch
Centre for Cosmology and Particle Physics Phenomenology, Odense (Dinamarca), 5 febrero
- *Comprehensive unification and the flavor puzzle*
M. Reig
Institut für Physik, Univ. Mainz (Alemania), 16 febrero
- *Minimal extensions of the SM with sterile neutrinos: impact on cLFV and LNV processes*
V. De Romeri
Institute for Particle Physics Phenomenology, Univ. Durham (Reino Unido), 1 marzo
SISSA, Trieste (Italia), 14 marzo
CP3, UCL, Lovaina (Bélgica), 2 mayo
- *Neutrino oscillations in the standard picture and beyond*
C.A. Ternes
TU Dortmund (Alemania), 11 abril
- *Detection of relic neutrinos with PTOLEMY*
S. Gariazzo
Max-Planck-Institut für Physik, Munich (Alemania), 26 abril
- *Neutrinos and what comes next*
J.W.F. Valle
International Institute of Physics, Natal (Brasil), 24 agosto
- *Status of 3-neutrino oscillations*
C.A. Ternes
University College London (Reino Unido), 12 octubre
- *New physics in B-meson decays*
A. Vicente
Univ. Lieja (Bélgica), 18 octubre
- *Dirac neutrinos*
R. Srivastava
CINVESTAV, Ciudad de México, 6 noviembre
- *New physics in B-meson decays*
A. Vicente
LPTHE, París (Francia), 16 noviembre