

PUBLICATIONS

Astroparticles and Dark Matter

2010

Robust Cosmological Bounds on Neutrinos and their Combination with Oscillation Results

Authors: M. C. Gonzalez-Garcia, Michele Maltoni, Jordi Salvado

<http://arxiv.org/abs/1006.3795>

Dark Coupling and Gauge Invariance

Authors: M.B. Gavela, L. Lopez-Honorez, O. Mena, S. Rigolin

<http://arxiv.org/abs/arXiv:1005.0295>

2011

The $\mu\nu$ SSM with an extra U(1)

Authors: Javier Fidalgo, Carlos Muñoz.

e-Print: [arXiv:1111.2836](https://arxiv.org/abs/1111.2836) [hep-ph]

Updated global fits of the cMSSM including the latest LHC SUSY and Higgs searches and XENON100 data

Authors: C. Strege, G. Bertone, D.G. Cerdeno, M. Fornasa, R. Ruiz de Austri, R. Trotta.

e-Print: [arXiv:1112.4192](https://arxiv.org/abs/1112.4192) [hep-ph]

Complementarity of Indirect and Accelerator Dark Matter Searches

Authors: G. Bertone, D.G. Cerdeno, M. Fornasa, L. Pieri, R. Ruiz de Austri, R. Trotta.

e-Print: [arXiv:1111.2607](https://arxiv.org/abs/1111.2607) [astro-ph.HE]

Cosmic-ray antiproton constraints on light singlino-like dark matter candidates

Authors: David G. Cerdeno (Madrid, Autónoma U. & Madrid, IFT & Madrid, Autónoma U.), Timur Delahaye (Madrid, Autónoma U. & Madrid, IFT), Julien Lavalle (Madrid, Autónoma U. & Madrid, IFT & Madrid, Autónoma U.).

Published in Nucl.Phys. B854 (2012) 738-779

e-Print: [arXiv:1108.1128v2](https://arxiv.org/abs/1108.1128v2) [hep-ph]

Very light right-handed sneutrino dark matter in the NMSSM

Authors: David G. Cerdeno, Ji-Haeng Huh, Miguel Peiro (Madrid, Autónoma U. & Madrid, IFT), Osamu Seto (Hokkai-Gakuen U.).

Published in JCAP 1111 (2011) 027

e-Print: arXiv:1108.0978

Global fits of the cMSSM including the first LHC and XENON100 data

Authors: G. Bertone, D.G. Cerdeno, M. Fornasa, R. Ruiz de Austri, C. Stenge, R. Trotta.

Published in JCAP 1201 (2012) 015

e-Print: arXiv:1107.1715 [hep-ph]

2012

Variance of the galactic nuclei cosmic ray flux

Autores: Guilhem Bernard; Timur Delahaye; Pierre Salati; Richard Taillet

Publicación: A&A Volume 544, A92 2012

<http://arxiv.org/abs/1204.6289>

A new perspective on Dark Energy modeling via Genetic Algorithms

Autores: Savvas Nesseris, Juan Garcia-Bellido

Publicación: JCAP11(2012)033

<http://arxiv.org/abs/1205.0364>

Ultra-High Energy Probes of Classicalization

Autores: Gia Dvali; Cesar Gomez

Publicación: <http://arxiv.org/abs/1205.2540>

What if Dark Matter Gamma-Ray Lines come with Gluon Lines?

Autores: Xiaoyong Chu, Thomas Hambye, Tiziana Scarna, Michel H. G. Tytgat

Publicación: <http://arxiv.org/abs/1206.2279>

No More Anomaly in the TeV Cosmic Ray Proton and Helium Spectra

Autores: Bernard; Delahaye; Keum; Liu; Salati; Taillet

Publicación: <http://arxiv.org/abs/1207.4670>

Characterization of Dark-Matter-induced anisotropies in the diffuse gamma-ray background

Autores: Fornasa, Mattia; Zavala, Jesus; Sanchez- Conde, Miguel A.; Siegal- Gaskins, Jennifer M.; Delahaye, Timur; Prada, Francisco; Vogelsberger, Mark; Zandanel, Fabio; Frenk, Carlos S.

Publicación: <http://arxiv.org/abs/1207.0502>

Nuclear uncertainties in the spin-dependent structure functions for direct dark matter detection

Autores: David G. Cerdeno, Mattia Fornasa, Ji-Haeng Huh, Miguel Peiro

Publicación: <http://arxiv.org/abs/1208.6426>

Cosmology and Dark Energy

2010

Large scale structure simulations of inhomogeneous LTB void models

Authors: David Alonso, Juan Garcia-Bellido, Troels Haugboelle, Julian Vicente

<http://arxiv.org/abs/arXiv:1010.3453>

Comments on the vacuum energy decay

Authors: Enrique Álvarez, Roberto Vidal

<http://arxiv.org/abs/arXiv:1004.4867>

On the Transverse-Traceless Projection in Lattice Simulations of Gravitational Wave Production

Daniel G. Figueroa (Helsinki Inst. of Phys. & Helsinki U.), Juan García-Bellido (Madrid, IFT), Arttu Rajantie (Imperial Coll., London).

Published in JCAP 1111 (2011) 015

e-Print: arXiv:1110.0337

2011

Higgs-Dilaton Cosmology: From the Early to the Late Universe

Juan Garcia-Bellido, Javier Rubio, Mikhail Shaposhnikov, Daniel Zenhausern (Madrid, IFT & ITPP, Lausanne)

Published in Phys.Rev. D84 (2011) 123504

e-Print: arXiv:1107.2163 [hep-ph]

A Minimal Inflation Scenario

Luis Alvarez-Gaume (CERN), Cesar Gómez (Madrid, IFT), Raúl Jiménez (ICREA, Barcelona & ICC, Barcelona U.)

Published in JCAP 1103 (2011) 027

e-Print: [arXiv:1101.4948](https://arxiv.org/abs/1101.4948) [hep-th]

Phenomenology of the minimal inflation scenario: inflationary trajectories and particle production

Luis Alvarez-Gaume, Cesar Gómez, Raúl Jiménez. Oct 2011.

e-Print: [arXiv:1110.3984](https://arxiv.org/abs/1110.3984) [astro-ph.CO]

Cancelling out systematic uncertainties

Jorge Norena, Licia Verde, Raúl Jiménez, Carlos Pena-Garay, Cesar Gómez. Jul 2011.

e-Print: [arXiv:1107.0729](https://arxiv.org/abs/1107.0729) [astro-ph.CO]

Non-perturbative production of matter and rapid thermalization after MSSM inflation

Rouzbeh Allahverdi, Andrea Ferrantelli, Juan García-Bellido, Anupam Mazumdar

e-Print: [arXiv:1103.2123v2 \[hep-ph\]](#)

A parametrization of the growth index of matter perturbations in various Dark Energy models and observational prospects using a Euclid-like survey

Alicia Bueno Bellosi, Juan García-Bellido, Domenico Sapon

e-Print: [arXiv:1105.4825v2 \[astro-ph.CO\]](#)

2012

Tension in the Void: Cosmic Rulers Strain Inhomogeneous Cosmologies

Autores: Miguel Zumalacarregui, Juan Garcia-Bellido, Pilar Ruiz-Lapiente

Publicación: JCAP10(2012)009

<http://arxiv.org/abs/1201.2790>

Statistical and systematic errors in redshift-space distortion measurements from large surveys

Autores: Davide Bianchi, Luigi Guzzo, Enzo Branchini, Elisabetta Majerotto, Sylvain de la Torre, Federico Marulli, Lauro Moscardini, Raul E. Angulo

Publicación: Mon. Not. R. Astron. Soc. 427 (2012), 2420-2436

<http://arxiv.org/abs/1203.1545>

Halo abundances and shear in void models

Autores: David Alonso, Juan García-Bellido, Troels Haugboelle, Alexander Knebe

Publicación: Physics of the Dark Universe 1 (2012), pp. 24-31

<http://arxiv.org/abs/1204.3532>

Higgs-Dilaton cosmology: Are there extra relativistic species?

Autores: Juan Garcia-Bellido; Javier Rubio; Mikhail Shaposhnikov

Publicación: Physics Letters B 718 (2012), pp. 507-511

<http://arxiv.org/abs/1209.2119>

DBI Galileons in the Einstein Frame: Local Gravity and Cosmology

Autores: Miguel Zumalacarregui, Tomi S. Koivisto, David F. Mota

Publicación: <http://arxiv.org/abs/arXiv:1210.8016>

Is the Jeffreys' scale a reliable tool for Bayesian model comparison in cosmology?

Autores: Savvas Nesseris, Juan Garcia-Bellido

Publicación: <http://arxiv.org/abs/1210.7652>

Precise Measurement of the Radial Baryon Acoustic Oscillation Scales in Galaxy Redshift Surveys

Autores: E. Sanchez, D. Alonso, F. J. Sanchez, J. Garcia-Bellido, I. Sevilla

Publicación: <http://arxiv.org/abs/arXiv:1210.6446>

Observational constraints on dark energy with a fast varying equation of state

Autores: Antonio De Felice, Savvas Nesseris, Shinji Tsujikawa

Publicación: JCAP 1205 (2012) 029

<http://arxiv.org/abs/arXiv:1203.6760>

Gravity

2010

The Tensor Hierarchies of Pure $N=2, d=4, 5, 6$ Supergravities

Authors: Mechthild Huebscher, Tomas Ortin, C.S. Shahbazi

JHEP 1011 (2010) 130, p.130 (2010)

<http://arXiv.org/abs/1006.4457>

Ultracold horizons in gauged $N=1$ $d=4$ supergravity

Authors: P. Meessen, T. Ortin

<http://arxiv.org/abs/arXiv:1007.3917>

All the timelike supersymmetric solutions of all ungauged d=4 supergravities

Authors: P. Meessen, T. Ortin, S. Vaula

<http://arxiv.org/abs/1006.0239>

Weyl tranerse gravity (WTDiff) and the cosmological constant

Authors: Enrique Álvarez, Roberto Vidal

PRD, Volume D81, Phys.Rev.D81:084057, 2010, p.084057 (2010)

Self-Completeness of Einstein Gravity

Authors: Gia Dvali, Cesar Gomez

<http://arxiv.org/abs/arXiv:1005.3497>

Spontaneous fragmentation of topological black holes

Authors: Jose L. F. Barbon, Javier Martinez-Magan

<http://arxiv.org/abs/1005.4439>

2011

Hole's Quantum N-Portrait Black

Gia Dvali (Munich U., ASC & Munich, Max Planck Inst. & New York U., CCPP & CERN),
Cesar Gomez (Madrid, IFT).

e-Print: [arXiv:1112.3359](http://arxiv.org/abs/1112.3359) [hep-th]

HFGK-formalism for black-hole solutions of N=2, d=4 and d=5 supergravity

Patrick Meessen (Oviedo U.), Tomas Ortin, Jan Perz, C.S. Shahbazi (Madrid, IFT).

e-Print: [arXiv:1112.3332](https://arxiv.org/abs/1112.3332) [hep-th]

Born-Infeld with Higher Derivatives

Wissam Chemissany, Renata Kallosh, Tomas Ortin.

e-Print: [arXiv:1112.0332](https://arxiv.org/abs/1112.0332) [hep-th]

Defect Branes

E. Bergshoeff, T. Ortin, F. Riccioni.

Published in Nucl.Phys. B856 (2012) 210-227

e-Print: [arXiv:1109.4484](#) [hep-th]

Non-Extremal Black Holes of N=2,d=5 Supergravity

P. Meessen, T. Ortin.

Published in Phys.Lett. B707 (2012) 178-183

e-Print: [arXiv:1107.5454](#) [hep-th]

On supersymmetric Einstein-Weyl spaces

P. Meessen, T. Ortin, A. Palomo-Lozano.

Published in J.Geom.Phys. 62 (2012) 301

e-Print: [arXiv:1107.0937](#) [gr-qc]

The general gaugings of maximal d=9 supergravity

J.J. Fernandez-Melgarejo (Murcia U.), T. Ortin (Madrid, IFT), E. Torrente-Lujan (Murcia U.).

Published in JHEP 1110 (2011) 068

e-Print: [arXiv:1106.1760](https://arxiv.org/abs/1106.1760) [hep-th]

Non-extremal black holes of N=2, d=4 supergravity

Pietro Galli (Valencia U. & Valencia U., IFIC), Tomas Ortin, Jan Perz, Carlos S. Shahbazi (Madrid, IFT).

Published in JHEP 1107 (2011) 041

e-Print: [arXiv:1105.3311](https://arxiv.org/abs/1105.3311) [hep-th]

A Simple Derivation of Supersymmetric Extremal Black Hole Attractors

Tomas Ortin (Madrid, IFT).

Published in Phys.Lett. B700 (2011) 261-264

e-Print: arXiv:1103.2738 [hep-th]

Vacuum Energy Decay

Enrique Álvarez, Roberto Vidal.

e-Print: arXiv:1111.2178 [hep-th]

Finite Time Vacuum Survival Amplitude and Vacuum Energy Decay

Enrique Álvarez, Roberto Vidal (Madrid, IFT & Madrid, Autónoma U.).

Published in Phys.Rev. D84 (2011) 105009, Phys.Rev. D84 (2011) 109904

e-Print: arXiv:1107.3134 [hep-th]

Bottom up approach to quantum gravity

Enrique Álvarez (Madrid, IFT & Madrid, Autónoma U.).

Published in J.Phys.Conf.Ser. 314 (2011) 012005

Non-extremal black holes of N=2, d=4 supergravity

Pietro Galli, Tomas Ortin, Jan Perz, C.S. Shahbazi

e-Print: [arXiv:1105.3311v2](https://arxiv.org/abs/1105.3311v2) [hep-th]

The General Gaugings of Maximal d=9 Supergravity

José Juan Fernandez Melgarejo, Tomas Ortin, Emilio Torrente-Lujan

e-Print: [arXiv:1106.1760v3 \[hep-th\]](#)

Classicalization of Gravitons and Goldstones

Gia Dvali; Cesar Gómez; Alex Kehagiasf

e-Print: [arxiv.org/abs/1103.5963](#)

Consistent asymptotic scalar wavefunction in de sitter spave

Autores: Enrique Álvarez

Publicación: <http://arxiv.org/abs/1203.6548>

Landau-Ginzburg Limit of Black Hole's Quantum Portrait: Self Similarity and Critical Exponent

Autores: Gia Dvali, Cesar Gomez

Publicación: <http://arxiv.org/abs/1203.3372>

Black Hole's $1/N$ Hair

Autores: Gia Dvali; Cesar Gomez

Publicación: <http://arxiv.org/abs/1203.6575>

Black holes and black strings of $N=2$, $d=5$ supergravity in the H-FGK formalism

Autores: Patrick Meessen, Tomas Ortín, Jan Perz and C.S. Shahbazi

Publicación: <http://arxiv.org/abs/1204.0507>

A note on the hidden conformal structure of non-extremal black holes

Autores: Tomás Ortín, C. S. Shahbazi

Publicación: <http://arxiv.org/abs/1204.5910>

The weight of matter

Autores: Enrique Alvarez

Publicación: <http://arxiv.org/abs/1204.6162>

Fast Scramblers, Horizons and Expander Graphs

Autores: Jose L.F. Barbon, Javier M. Magan

Publicación: <http://arxiv.org/abs/1204.6435>

New E77 invariants and amplitudes

Autores: Renata Kallosh; Tomas Ortin

Publicación: <http://arxiv.org/abs/1205.4437>

Probing deviations from General Relativity with the Euclid spectroscopic survey

Autores: Elisabetta Majerotto; Luigi Guzzo; Lado Samushia; Will J. Percival; Yun Wang; Sylvain de la Torre; Bianca Garilli; Paolo Franzetti; Emanuel Rossetti; Andrea Cimatti; Carmelita Carbone; Nathan Roche; Giovanni Zamorani

Publicaciones: <http://arxiv.org/abs/1205.6215>

The supersymmetric black holes of N=8 supergravity

Autores: Tomas Ortin; C.S. Shahbazi

Publicación: <http://arxiv.org/abs/1206.3190>

Black Hole Quantum Mechanics in the Presence of Species

Autores: Gia Dvali; Cesar Gomez; Dieter Lust

Publicación: <http://arxiv.org/abs/1206.2365>

Black Holes as Critical Point of Quantum Phase Transition

Autores: Gia Dvali; Cesar Gomez

Publicaciones: <http://arxiv.org/abs/1207.4059>

Non-extremal black-hole solutions of $N=2, d=4,5$ supergravity

Autor: P. Meessen, T. Ortin

Publicación: <http://arxiv.org/abs/1107.5454>

Lifshitz-like solutions with hyperscaling violation in ungauged supergravity

Autores: Pablo Bueno, Wissam Chemissany, Patrick Meessen, Tomas Ortin, C. S. Shahbazi

Publicación: <http://arxiv.org/abs/1209.4047>

Unimodular gravity with external sources

Autores: Enrique Álvarez, Mario Herrero-Valea

Publicación: <http://arxiv.org/abs/1209.6223>

The Freudenthal gauge symmetry of the black holes of $N=2, d=4$ supergravity

Autores: Pietro Galli, Patrick Meessen, Tomas Ortin

Publicación: <http://arxiv.org/abs/1211.7296>

Bootstrapping gravity solutions

Autores: Joao Aparicio, Daniel Grumiller, Esperanza Lopez, Ioannis Papadimitriou, Stefan Stricker

Publicación: <http://arxiv.org/abs/1212.3609>

Phenomenology and LHC

2010

UV-Completion by Classicalization

Authors: Gia Dvali, Gian F. Giudice, Cesar Gomez, Alex Kehagias

<http://arxiv.org/abs/arXiv:1010.1415>

Energy dependent neutrino flavor ratios from cosmic accelerators on the Hillas plot

Authors: Svenja Hümmer, Michele Maltoni, Walter Winter, Carlos Yaguna

<http://arxiv.org/abs/1007.0006>

Higgs Boson Masses in the MSSM with Heavy Majorana Neutrinos

Authors: S. Heinemeyer, M.J. Herrero, S. Penaranda, A.M. Rodriguez-Sanchez

<http://arxiv.org/abs/arXiv:1007.5512>

The τ -contamination of the golden muon sample at the Neutrino Factory

Authors: A. Donini, J.J. Gomez Cadenas, D. Meloni

<http://arxiv.org/abs/arXiv:1005.2275>

Neutrinoless double beta decay in seesaw models

Authors: Mattias Blennow, Enrique Fernandez-Martinez, Jacobo Lopez-Pavon, Javier Menendez

JHEP, Volume 1007, JHEP 1007 (2010) 096, p.096 (2010)

<http://arxiv.org/abs/arXiv:1005.3240>

A minimal Beta Beam with high-Q ions to address CP violation in the leptonic sector

Authors: P. Coloma, A. Donini, P. Migliozzi, L. Scotto Lavina, F. Terranova

<http://arxiv.org/abs/arXiv:1004.3773>

Probing Quantum Geometry at LHC

Authors: Gia Dvali, Cesar Gomez, Slava Mukhanov

<http://arxiv.org/abs/arXiv:1006.2466>

Fair scans of the seesaw. Consequences for predictions on LFV processes

Authors: J. Alberto Casas, Jesus M. Moreno, Nuria Rius, Roberto Ruiz de Austri, Bryan Zaldivar

<http://arxiv.org/abs/1010.5751>

2011

Higgs Boson masses and B-Physics Constraints in Non-Minimal Flavor Violating SUSY

scenarios

M. Arana-Catania (Madrid, Autónoma U. & Madrid, IFT), S. Heinemeyer (Cantabria Inst. of Phys.), M.J. Herrero (Madrid, Autónoma U. & Madrid, IFT), S. Penaranda (Zaragoza U.).

e-Print: [arXiv:1109.6232](https://arxiv.org/abs/1109.6232) [hep-ph]

Histogram comparison as a powerful tool for the search of new physics at LHC. Application to CMSSM

Maria Eugenia Cabrera, J.Alberto Casas (Madrid, IFT), Vasiliki A. Mitsou, Roberto Ruiz de Austri (Valencia U., IFIC), Juan Terron (Madrid, Autónoma U.).

e-Print: [arXiv:1109.3759](https://arxiv.org/abs/1109.3759) [hep-ph]

Upper bounds on SUSY masses from the LHC

M.E. Cabrera (Madrid, IFT), J.A. Casas (Madrid, IFT & Notre Dame U.), A. Delgado (Notre Dame U.).

e-Print: [arXiv:1108.3867](https://arxiv.org/abs/1108.3867) [hep-ph]

Quantifying the tension between the Higgs mass and $(g-2)_\mu$ in the CMSSM

Maria Eugenia Cabrera, J.Alberto Casas (Madrid, IFT), Roberto Ruiz de Austri (Valencia U., IFIC), Roberto Trotta (Imperial Coll., London).

Published in Phys.Rev. D84 (2011) 015006

Fair scans of the seesaw. Consequences for predictions on LFV processes

J.Alberto Casas, Jesus M. Moreno (Madrid, IFT), Nuria Rius, Roberto Ruiz de Austri (Valencia U. & Valencia U., IFIC), Bryan Zaldivar (Madrid, IFT).

Published in JHEP 1103 (2011) 034

M_h in MSSM with Heavy Majorana Neutrinos

S. Heinemeyer, M.J. Herrero, S. Penaranda, A.M. Rodriguez-Sanchez.

e-Print: [arXiv:1107.0241 \[hep-ph\]](#)

Higgs Boson Masses in the MSSM with Heavy Majorana Neutrinos

S. Heinemeyer, M.J. Herrero (Cantabria Inst. of Phys.), S. Penaranda (Madrid, Autónoma U. & Madrid, IFT), A.M. Rodriguez-Sanchez (Zaragoza U.).

Published in JHEP 1105 (2011) 063

Anomalous Higgs Couplings at the LHC

F. Bonnet, M.B. Gavela, T. Ota, W. Winter.

e-Print: [arXiv:1105.5140 \[hep-ph\]](#)

On the scalar potential of minimal flavour violation

R. Alonso, M.B. Gavela (Madrid, Autónoma U. & Madrid, IFT), L. Merlo (Munich, Tech. U.), S. Rigolin (Padua U. & INFN, Padua).

Published in JHEP 1107 (2011) 012

e-Print: [arXiv:1103.2915](https://arxiv.org/abs/1103.2915) [hep-ph]

NLO jet vertex from Lipatov's QCD effective action

Martin Hentschinski, Agustin Sabio Vera (Madrid, IFT).

e-Print: [arXiv:1110.6741](https://arxiv.org/abs/1110.6741) [hep-ph]

High-Energy Dijets in N=4 SYM

Grigorios Chachamis, José Daniel Madrigal, Agustin Sabio Vera. e-Print: [arXiv:1110.5830](https://arxiv.org/abs/1110.5830) [hep-ph]

UV-Completion by Classicalization

Gia Dvali (Munich U., ASC & Munich, Max Planck Inst. & CERN & New York U., CCPP), Gian F. Giudice (CERN), Cesar Gomez (Madrid, IFT), Alex Kehagias (Natl. Tech. U., Athens).

Published in JHEP 1108 (2011) 108

A Comparative study of small x Monte Carlos with and without QCD coherence effects

G. Chachamis (PSI, Villigen), M. Deak, A.Sabio Vera (Madrid, IFT & Madrid, Autónoma U.), P. Stephens (Caltech, JPL).

Published in Nucl.Phys. B849 (2011) 28-44

e-Print: [arXiv:1102.1890](https://arxiv.org/abs/1102.1890) [hep-ph]

Are there sterile neutrinos at the eV scale?

Joachim Kopp, Michele Maltoni, Thomas Schwetz

e-Print: arxiv.org/abs/1103.4570

A comparative study of small x Monte Carlos with and without QCD coherence effects

G. Chachamis, M. Deak, A. Sabio Vera, P. Stephens

Nucl.Phys. B849 (2011) 28-44 , Volume 849, Nucl. Phys. B849 (2011) 28-44, p.28-44 (2011)

e-Print: [arXiv:1102.1890v1](https://arxiv.org/abs/1102.1890v1) [hep-ph]

Testing matter effects in propagation of atmospheric and long-baseline neutrinos

M.C. Gonzalez-Garcia, Michele Maltoni, Jordi Salvado

e-Print: [arXiv:1103.4365v2](https://arxiv.org/abs/1103.4365v2) [hep-ph]

On The Potential of Minimal Flavour Violation

R. Alonso, M.B. Gavela, L. Merlo, S. Rigolin

e-Print: [arXiv:1103.2915v3 \[hep-ph\]](#)

Anomalous Higgs Couplings at the LHC

F. Bonnet, M. B. Gavela, T. Ota, W. Winter

e-Print: [arXiv:1105.5140v2 \[hep-ph\]](#)

The colour octet representation of the non-forward BFKL Green function

G. Chachamis, A. Sabio Vera.

e-Print: [arXiv:1112.4162 \[hep-th\]](#)

2012

Exploring novel correlations in trilepton channels at the LHC for the minimal supersymmetric inverse seesaw model

Autores: Subhadeep Mondal, Sanjoy Biswas, Pradipta Ghosh, Sourov Roy

Publicación: Journal of High Energy Physics, Volume 05, p.134 (2012)

<http://arxiv.org/abs/arXiv:1201.1556>

Quark contribution to the gluon Regge trajectory at NLO from the high energy effective action

Autores: G. Chachamis, M. Hentschinski, J. D. Madrigal Martinez, A. Sabio Vera

Publicación: Nuclear Physics B 861 (2012) 133-144, Volume 861, Nuclear Physics B 861 (2012) 133-144, p.133-144 (2012)

<http://arxiv.org/abs/arXiv:1202.0649>

Higgs decay with monophoton and missing energy signature from low scale supersymmetry breaking

Autores: Christoffer Petersson; Alberto Romagnoni; Riccardo Torre

Publicación: <http://arxiv.org/abs/1203.4563>

Precision on leptonic mixing parameters at future neutrino oscillation experiments

Autores: P. Coloma, A. Donini, E. Fernandez-Martinez, P. Hernandez

Publicación: <http://arxiv.org/abs/1203.5651>

Lower Limits on $\mu \rightarrow e \gamma$ from new Measurements on U_{e3}

Autores: Joydeep Chakraborty, Pradipta Ghosh, Werner Rodejohann

Publicación: Phys. Rev. D 86, 075020 (2012)

<http://arxiv.org/abs/1204.1000>

Extra $U(1)$ as a natural source of a monochromatic gamma ray line

Autores: Emilian Dudas; Yann Mambrini; Stefan Pokorski; Alberto Romagnoni

Publicación: <http://arxiv.org/abs/1205.1520>

Applications of Lipatov's high energy effective action to NLO BFKL jet phenomenology

Autores: Martin Hentschinski, Beatrice Murdaca, Agustin Sabio Vera

Publicación: Proceedings of the XX Workshop on Deep-Inelastic Scattering and Related Subjects, 26-30 March, University of Bonn (2012)

<http://arxiv.org/abs/1206.1622>

On the Potential of Leptonic Minimal Flavour Violation

Autores: R. Alonso, M. B. Gavela, D. Hernández, L. Merlo

Publicación: <http://arxiv.org/abs/1206.3167>

The NLO $N=4$ SUSY BFKL Green function in the adjoint representation

Autores: G. Chachamis, A. Sabio Vera

Publicación: <http://arxiv.org/abs/arXiv:1206.3140>

Understanding and improving the Effective Mass for LHC searches

Autores: María Eugenia Cabrera; J. Alberto Casas

Publicaciones: <http://arxiv.org/abs/1207.0435>

Muon conversion to electron in type-1 seesaw models

Autores: R. Alonso; M. Dhen; M. B. Gavela; T. Hambye

Publicación: <http://arxiv.org/abs/1209.2679>

Peccei-Quinn NMSSM in the light of 125 GeV Higgs

Autores: Kyu Jung Bae; Kiwoon Choi; Eung Jin Chun; Sang Hui Im; Chan Beom Park; Chang Sub Shin

Publicación: JHEP 1211:118,2012

Global fit to three neutrino mixing: critical look at present precision

Autores: M.C.Gonzalez-Garcia, Michele Maltoni, Jordi Salvado, Thomas Schwetz

Publicación: JHEP 1212:123, 2012

<http://arxiv.org/abs/1209.3023>

Displaced multileptons at the LHC - probing a 125 GeV new boson in $\mu\mu\gamma$ SSM

Autores: Pradipta Ghosh, Daniel E. Lopez-Fogliani, Vasiliki A. Mitsou, Carlos Munoz, Roberto Ruiz de Austri

Publicación: <http://arxiv.org/abs/1211.3177>

Discovering Minimal Universal Extra Dimensions (MUED) at the LHC

Autores: Alexander Belyaev, Matthew Brown, Jesús Moreno, Chloé Papineau

Publicación: <http://arxiv.org/abs/arXiv:1212.4858>

The Effective Lagrangian for a Light Dynamical "Higgs"

Autores: R. Alonso, M.B. Gavela, L. Merlo, S. Rigolin, J. Yepes

Publicación: <http://arxiv.org/abs/1212.3305>

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