

## PUBLICATIONS

Papers through the CERN-CMS collaboration can be found [here](#).

### A) PUBLICATIONS IN QUANTUM (BIO)PHYSICS

#### 1) **Scattering Times of Quantum Particles from the Gravitational Potential and Equivalence Principle Violation**

Durmuş Demir

arXiv:2208.06247 [quant-ph]

[Phys. Rev. A106 \(2022\) 022215](#)

#### 2) **Tunneling Time from Spin Fluctuations in Larmor Clock**

Durmuş Demir

arXiv:2207.03991 [quant-ph]

[Phys. Lett. A448 \(2022\) 128321](#)

#### 3) **Time delay during intra-base proton tunneling in the guanine base of the single stranded DNA**

Elif Özçelik, Eda Akar, Semih Zaman, Durmuş Demir

[Progress in Biophysics and Molecular Biology 173 \(2022\) 4](#)

#### 4) **Time delay during the proton tunneling in the base pairs of the DNA double helix**

Gizem Çelebi, Elif Özçelik, Emre Vardar, Durmuş Demir

[Progress in Biophysics and Molecular Biology 167 \(2021\) 96](#)

#### 5) **Statistical Approach to Tunneling Time in Attosecond Experiments**

Durmuş Demir, Tugrul Güner

arXiv:1512.04338 [quant-ph]

[Annals of Physics 386 \(2017\) 291](#)

#### 6) **Tunneling in Polymer Quantization and the Quantum Zeno Effect**

Durmuş Demir, Ozan Sargin

arXiv:1409.7224 [quant-ph]

[Phys. Lett. A378 \(2014\) 3237](#)

#### 7) **Real time tunneling**

Durmuş Demir.

[arXiv.quant-ph/9809036](#)

In CONFERENCE ON FRONTIERS IN THEORETICAL PHYSICS. EDİRNE, TURKEY, 1993. Ed. A. O. Barut

## B) PUBLICATIONS IN GRAVITATION AND COSMOLOGY

### 8) **Testing Symmergent gravity through the shadow image and weak field photon deflection by a rotating black hole using the M87\*\* and Sgr. A\*\* results**

Reggie Pantig, Ali Övgün, Durmuş Demir

[arXiv.2208.02969](https://arxiv.org/abs/2208.02969)

### 9) **Quasiperiodic oscillations, weak field lensing and shadow cast around black holes in Symmergent gravity**

Javlon Rayimbaev, Reggie Pantig, Ali Övgün, Ahmadjon Abdujabbarov, Durmuş Demir

[arXiv.2206.06599](https://arxiv.org/abs/2206.06599)

### 10) **Black hole shadow in symmergent gravity**

İrfan Çimdiker, Durmuş Demir, Ali Övgün.

arXiv:2110.11904 [gr-qc]

[Phys. Dark Universe 34 \(2021\) 100900](https://doi.org/10.1088/1475-2875/2021/04/100900)

### 11) **Emergent Gravity as the Eraser of Anomalous Gauge Boson Masses, and QFT-GR Concord**

Durmuş Demir

arXiv:2101.12391 [gr-qc]

[Gen. Relativ. Gravit. 53 \(2021\) 22](https://doi.org/10.1088/0264-7114/38/22/221501)

### 12) **Geometric dark matter**

Durmuş Demir, Beyhan Pulçiçe

arXiv:2001.06577 [hep-ph]

[JCAP 04 \(2020\) 051](https://doi.org/10.1088/1475-2875/2020/04/051)

### 13) **Induced Affine Inflation**

Hemza Azri, Durmuş Demir

arXiv:1802.00590 [gr-qc]

[Phys. Rev. D97 \(2018\) 044025](https://doi.org/10.1088/1475-2875/2018/04/044025)

### 14) **Affine Inflation**

Hemza Azri, Durmuş Demir

arXiv:1705.05822 [gr-qc]

[Phys. Rev. D95 \(2017\) 124007](https://doi.org/10.1088/1475-2875/2017/09/124007)

### 15) **Riemann-Eddington theory: Incorporating matter, degravitating the cosmological constant**

Durmuş Demir

arXiv:1409.2572 [gr-qc]

[Phys. Rev. D90 \(2014\) 064017](https://doi.org/10.1088/1475-2875/2014/06/064017)

**16) Relativistic MOND from Modified Energetics**

Durmuş Demir, Canan Karahan

arXiv:1408.5787 [gr-qc]

[Eur. Phys. J. C74 \(2014\) 3204](#)

**17) Dark Matter from Conformal Sectors**

Durmuş Demir, Mariana Frank, Beste Korutlu

arXiv:1308.1203 [hep-ph]

[Phys. Lett. B728 \(2014\) 393](#)

**18) Conformal Transformations in Metric-Affine Gravity and Ghosts**

Canan Karahan, Oktay Dogangun, Durmuş Demir

arXiv:1204.6366 [gr-qc]

[Annalen Phys. 524 \(2012\) 461](#)

**19) Scalars, Vectors and Tensors from Metric-Affine Gravity**

Canan Karahan, Asli Altas, Durmuş Demir

arXiv:1110.5168 [gr-qc]

[Gen. Rel. Grav. 45 \(2013\) 319](#)

**20) Einstein Equations from Riemann-only Gravitational Actions**

Durmuş Demir, Oktay Dogangun, Tonguc Rador, Selin Soysal

[arXiv.1105.4750](#)

**21) Stress-Energy Connection and Cosmological Constant Problem**

Durmuş Demir

arXiv:1102.2276 [hep-th]

[Phys. Lett. B701 \(2011\) 496](#)

**22) Higgs-Palatini Inflation and Unitarity**

Florian Bauer, Durmuş Demir

arXiv:1012.2900 [hep-ph]

[Phys. Lett. B698 \(2011\) 425](#)

**23) Vacuum Energy as the Origin of the Gravitational Constant**

Durmuş Demir

arXiv:0910.2730 [hep-th]

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**24) Sneutrino Dark Matter: Symmetry Protection and Cosmic Ray Anomalies**

Durmuş Demir, Lisa L. Everett, Mariana Frank, Levent Selbuz, Ismail Turan

arXiv:0906.3540 [hep-ph]

[Phys. Rev. D81 \(2010\) 035019](#)

**25) General Tensor Lagrangians from Gravitational Higgs Mechanism**

Durmuş Demir, N.K. Pak

arXiv:0904.0089 [hep-th]

[Class. Quant. Grav. 26 \(2009\) 105018](#)

**26) Inflation with Non-Minimal Coupling: Metric versus Palatini Formulations**

Florian Bauer, Durmuş Demir

arXiv:0803.2664 [hep-ph]

[Phys. Lett. B665 \(2008\) 222](#)

**27) Neutralino dark matter in the left-right supersymmetric model**

Durmuş Demir, Mariana Frank, Ismail Turan

hep-ph/0604168

[Phys. Rev. D73 \(2006\) 115001](#)

**28) Generalized modified gravity in large extra dimensions**

Onder Aslan, Durmuş Demir.

hep-ph/0603051

[Phys. Lett. B635 \(2006\) 343](#)

**29) Non-Gravitating Scalars and Spacetime Compactification**

Durmuş Demir, Beyhan Pulice

hep-th/0605071

[Phys. Lett. B638 \(2006\) 1](#)

**30) Stable Q balls from extra dimensions**

Durmuş Demir

hep-ph/0006344

[Phys. Lett. B495 \(2000\) 357](#)

**31) Q Ball formation in the MSSM with explicit CP violation**

M. Boz, Durmuş Demir, N.K. Pak

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**32) Weak scale hidden sector and fireball models of gamma-ray bursts**

Durmuş Demir, Herman J. Mosquera Cuesta

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[Phys. Rev. D64 \(2001\) 043003](#)

**33) Weak scale hidden sector and electroweak Q balls**

Durmuş Demir

hep-ph/9810453

[Phys. Lett. B450 \(1999\) 215](#)

## C) PUBLICATIONS IN PARTICLE PHYSICS

### 34) **Type-3/2 Seesaw Mechanism**

Durmuş Demir, Canan Karahan, Ozan Sargin

arXiv:1708.07956 [hep-ph]

[PhysRevD.104.075038](#)

### 35) **Naturally-Coupled Dark Sectors**

Durmuş Demir

[Galaxies 9 \(2021\) 33](#)

### 36) **Scalar Dark Matter and Electroweak Stability**

Durmuş Demir, Cem S. Ün

[arXiv.2005.03589](#)

### 37) **Electroweak Stability and Discovery Luminosities for New Physics**

Kerem Cankocak, Durmuş Demir, Canan Karahan, Sercan Şen

arXiv:2002.12262 [hep-ph]

[Eur. Phys. J. C80 \(2020\) 1188](#)

### 38) **Symmergent Gravity, Seesawic New Physics, and their Experimental Signatures**

Durmuş Demir

arXiv:1901.07244 [hep-ph]

[Adv. High Energy Phys. 2019 \(2019\) 4652048](#)

### 39) **Hidden Spin-3/2 Field in the Standard Model**

Durmuş Demir, Canan Karahan, Beste Korutlu, Ozan Sargin.

arXiv:1708.07956 [hep-ph]

[Eur. Phys. J. C77 \(2017\) 593](#)

### 40) **Naturalizing Gravity of the Quantum Fields, and the Hierarchy Problem**

Durmuş Demir

[arXiv.1703.05733](#)

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In XI-th International Conference on the Interconnection Between Particle Physics and Cosmology (PPC2017). Corpus Christi, Texas, Usa, 2017.

### 41) **Curvature-Restored Gauge Invariance and Ultraviolet Naturalness**

Durmuş Demir

arXiv:1605.00377 [hep-ph]

[Adv. High Energy Phys. 2016 \(2016\) 6727805](#)

**42) A Mechanism of Ultraviolet Naturalness**

Durmuş Demir

[arXiv:1510.05570](https://arxiv.org/abs/1510.05570)

**43) Higgsed Stueckelberg Vector and Higgs Quadratic Divergence**

Durmuş Demir, Canan Karahan, Beste Korutlu

arXiv:1409.1033 [hep-ph]

[Phys. Lett. B740 \(2015\) 46](https://arxiv.org/abs/1409.1033)

**44) Stop on Top: SUSY Parameter Regions, Fine-Tuning Constraints**

Durmuş Demir, Cem Salih Ün

arXiv:1407.1481 [hep-ph]

[Phys. Rev. D90 \(2014\) 095015](https://arxiv.org/abs/1407.1481)

**45) Effects of Curvature-Higgs Coupling on Electroweak Fine-Tuning**

Durmuş Demir

arXiv:1405.0300 [hep-ph]

[Phys. Lett. B733 \(2014\) 237](https://arxiv.org/abs/1405.0300)

**46) Gravi-Natural Higgs and Conformal New Physics**

Durmuş Demir

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In IPM International Workshop on Particle Physics (IPP2012). Tehran, Iran, 2012.

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**47) Gravity wraps Higgs boson**

Durmuş Demir

[arXiv.1110.3815](https://arxiv.org/abs/1110.3815)

**48) Scalar Neutrinos at the LHC**

Durmuş Demir, Mariana Frank, Levent Selbuz, Ismail Turan

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[Phys. Rev. D83 \(2011\) 095001](https://arxiv.org/abs/1012.5105)

**49) Tevatron Higgs Mass Bounds: Projecting U(1)' Models to LHC Domain**

Hale Sert, Elif Cincioglu, Durmuş Demir, Levent Solmaz

arXiv:1005.1674 [hep-ph]

[Phys. Lett. B692 \(2010\) 327](https://arxiv.org/abs/1005.1674)

**50) Phenomenological aspects of U(1)-prime models**

Durmuş Demir

[AIP Conf. Proc. 1115 \(2009\)186](https://arxiv.org/abs/hep-ph/0605208)

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**51) Doubly Charged Higgsinos at Tevatron**

Durmuş Demir, Mariana Frank, Dilip K. Ghosh, Katri Huitu, Santosh K. Rai, Ismail Turan

arXiv:0903.3955 [hep-ph]

[Phys. Rev. D79 \(2009\) 095006](#)

**52) Search for Gauge Extensions of the MSSM at the LHC**

Ahmed Ali, Durmuş Demir, Mariana Frank, Ismail Turan

arXiv:0902.3826 [hep-ph]

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**53) The LHC signatures of the extended gauge structures in supersymmetry**

Ahmed Ali, Durmuş Demir, Mariana Frank, Ismail Turan

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**54) Signatures for doubly-charged Higgsinos at colliders**

Durmuş Demir, Mariana Frank, Katri Huitu, Santosh Kumar Rai, Ismail Turan

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[AIP Conf. Proc. 1078 \(2009\) 312](#)

**55) Signals of Doubly-Charged Higgsinos at the CERN Large Hadron Collider**

Durmuş Demir, Mariana Frank, Katri Huitu, Santosh Kumar Rai, Ismail Turan

arXiv:0805.4202 [hep-ph]

[Phys. Rev. D78 \(2008\) 035013](#)

**56) Doubly charged Higgsinos at LHC**

Durmuş Demir, Mariana Frank, Katri Huitu, Santosh Kumar Rai, Ismail Turan

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**57) Dirac Neutrino Masses from Generalized Supersymmetry Breaking**

Durmuş Demir, Lisa L. Everett, Paul Langacker

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**58) Squark pair production in the MSSM with explicit CP violation**

Ahmet Alan, Kerem Cankocak, Durmuş Demir

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[Phys. Rev. D75 \(2007\) 095002](#)

**59) On the Sources of CP-violation Contributing to the Electric Dipole Moments**

D.A. Demir, Y. Farzan

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**60) Introduction to Higgs sector: Theory and phenomenology**

Durmuş Demir  
[Springer Proc. Phys. 118 \(2008\) 27](#)

**61) Correlating mu parameter and right-handed neutrino masses in N=1 supergravity**

Durmuş Demir, Y. Farzan  
hep-ph/0601096  
[JHEP 0603 \(2006\) 010](#)

**62) LEP indications for two light Higgs bosons and U(1)-prime model**

Durmuş Demir, Levent Solmaz, Saime Solmaz  
hep-ph/0512134  
[Phys. Rev. D73 \(2006\) 016001](#)

**63) Higher curvature quantum gravity and large extra dimensions**

Durmuş Demir, Sukru Hanif Tanyildizi  
hep-ph/0512078  
[Phys. Lett. B633 \(2006\) 368](#)

**64) Can measurements of electric dipole moments determine the seesaw parameters?**

Durmuş Demir, Yasaman Farzan  
hep-ph/0508236  
[JHEP 0510 \(2005\) 068](#)

**65) The Minimal U(1)' extension of the MSSM**

Durmuş Demir, Gordon L. Kane, Ting T. Wang  
hep-ph/0503290  
[Phys. Rev. D72 \(2005\) 015012](#)

**66) Higgs-Quark Couplings With SUSY Flavor Violation**

Durmuş Demir  
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**67) Effects of flavor violation on split supersymmetry**

Durmuş Demir  
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**68) Renormalization group invariants in the MSSM and its extensions**

Durmuş Demir  
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**69) Higgs quark couplings in SUSY with CP and flavor violations**

Durmus A. Demir

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In Proceedings of SUSY2003, Tucson, Arizona, 5-10 June, 2003.

**70) Nonlinearly realized local scale invariance: Gravity and matter**

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**71) Electric dipole moments in the MSSM at large tan beta**

Durmuş Demir, Oleg Lebedev, Keith A. Olive, Maxim Pospelov, Adam Ritz

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**72) CP violation in supersymmetric U(1) prime models**

Durmuş Demir, L.L. Everett

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**73) Higgs boson couplings to quarks with supersymmetric CP and flavor violations**

Durmuş Demir

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**74) Preserving the lepton asymmetry in the brane world**

Durmuş Demir, Tony Gherghetta, Keith A. Olive

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**75) Hadronic EDMs, the Weinberg operator, and light gluinos**

Durmuş Demir, Maxim Pospelov, Adam Ritz

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**76) The Forward backward asymmetry of  $B \rightarrow (\pi, K) \ell^+ \ell^-$  :  
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Durmuş Demir, Keith A. Olive, M.B. Voloshin

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**78) Supersymmetric CP violation: Higgs and flavor**

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**79)  $B \rightarrow X(s) \gamma$  in supersymmetry with explicit CP violation**

Durmuş Demir, Keith A. Olive

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**80) Realistic gluino axion model consistent with supersymmetry breaking at the TeV scale**

Durmuş Demir, Ernest Ma

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**81) The B quark EDM in SUSY and CP odd bottomonium formation**

Durmuş Demir, M.B. Voloshin

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**84) Relaxation of the dynamical gluino phase and unambiguous electric dipole moments**

Durmuş Demir, Ernest Ma

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**85) Probing the sources of CP violation via  $B \rightarrow K^* l^+ l^-$  decay**

T.M. Aliev, Durmuş Demir, M. Savci

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**86) Dynamical relaxation of the CP phases in next-to-minimal supersymmetry**

By Durmuş Demir

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**87) CP violation as a probe of flavor origin in supersymmetry**

Durmuş Demir, A. Masiero, O. Vives

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**88) CP conserving constraints on supersymmetric CP violation in the MSSM**

Durmuş Demir, A. Masiero, O. Vives

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**89) Higgs pair production in the MSSM with explicit CP violation**

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**89) Additional phases induced by the supersymmetric CP phases**

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**91) Distinguishing the Higgs scalars of NMSSM and Z-prime models for large Higgs trilinear couplings**

Durmuş Demir

[hep-ph/9902468](#)

**92) Effects of the supersymmetric phases on the neutral Higgs sector**

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**93) Electroweak symmetry breaking in low-scale quantum gravity**

M. Boz, Durmuş Demir, N.K. Pak

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**94) Fully supersymmetric CP violation in K and B systems**

Durmuş Demir, A. Masiero, O. Vives

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**95) Implications of Delta rho and CHARM-II data for Z-prime physics**

Durmuş Demir

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**96) Probing the phases in the MSSM via  $e^+ e^- \rightarrow h A$**

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**98) Two Higgs doublet models from TeV scale supersymmetric extra U(1) models**

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**99) One loop effects in supergravity models with an additional U(1)**

Durmuş Demir, N.K. Pak

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**100) Higgsstrahlung in Abelian extended supersymmetric standard model**

Durmuş Demir, N.K. Pak

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[Phys. Lett. B439 \(1998\) 309](#)

**101) Electroweak breaking and the mu problem in supergravity models with an additional U(1)**

Mirjam Cvetič, Durmuş Demir, J.R. Espinosa, L.L. Everett, P. Langacker

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**103) The  $g(B^* B \text{ rho})$  and  $g(D^* D \text{ rho})$  coupling constants in QCD**

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**105) Vector leptoquark search in the process  $e^+ e^- \rightarrow t \text{ anti-}t$**

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**107)  $g(B^* B \text{ rho})$  and  $g(D^* D \text{ rho})$  coupling constants in light cone QCD sum rules**

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**111) Radiative corrections to  $\nu/\mu e$  scattering**

T.M. Aliev, Durmuş Demir, E. Iltan

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**112) The 'Full experiment' in  $b \rightarrow s l^+ l^-$  decay**

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