



## Savas Dimopoulos

Hamamoto Family Professor

Physics

### Bio

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#### BIO

What is the origin of mass? Are there other universes with different physical laws?

Professor Dimopoulos has been searching for answers to some of the deepest mysteries of nature. Why is gravity so weak? Do elementary particles have substructure?

What is the origin of mass? Are there new dimensions? Can we produce black holes in the lab?

Elementary particle physics is entering a spectacular new era in which experiments at the Large Hadron Collider at CERN will soon shed light on such questions and lead to a new deeper theory of particle physics, replacing the Standard Model proposed forty years ago. The two leading candidates for new theories are the Supersymmetric Standard Model and theories with Large Extra Dimensions, both proposed by Professor Dimopoulos and collaborators.

Professor Dimopoulos is collaborating on a number of experiments that use the dramatic advances in atom interferometry to do fundamental physics. These include testing Einstein's theory of general relativity to fifteen decimal precision, atom neutrality to thirty decimals, and looking for modifications of quantum mechanics. He is also designing an atom-interferometric gravity-wave detector that will allow us to look at the universe with gravity waves instead of light, marking the dawn of gravity wave astronomy and cosmology.

#### ACADEMIC APPOINTMENTS

- Professor, Physics

#### ADMINISTRATIVE APPOINTMENTS

- Staff Member, CERN, (1994-1997)
- Visiting Professor, Boston University, (1989-1989)
- Associate Professor, Harvard University, (1981-1983)
- Visiting Professor, ITP UC Santa Barbara, (1981-1981)
- Postdoctoral Fellow, Columbia University, (1978-1979)

#### HONORS AND AWARDS

- J. J. Sakurai Prize for Theoretical Particle Physics, American Physical Society (2006)
- Member, American Academy of Arts and Sciences (2006)
- Tomassoni Prize, Sapienza University of Rome (2006)
- Fellow, Japan Society for the Promotion of Science

- Fellow, Alfred P. Sloan Foundation
- Distinguished Alumnus Award, University of Houston

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Academy of Arts and Sciences (2006 - present)

## PROFESSIONAL EDUCATION

- Ph.D., University of Chicago , Physics (1978)

## LINKS

- Publications on arXiv: [http://arxiv.org/find/hep-ph/1/au:+Dimopoulos\\_S/0/1/0/all/0/1](http://arxiv.org/find/hep-ph/1/au:+Dimopoulos_S/0/1/0/all/0/1)

## Teaching

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### COURSES

#### 2020-21

- Standard Model of Particle Physics: PHYSICS 351 (Win)

#### 2019-20

- Frontiers in Theoretical Physics and Cosmology: PHYSICS 18N (Win)

#### 2018-19

- Standard Model of Particle Physics: PHYSICS 351 (Win)

#### 2017-18

- Frontiers in Theoretical Physics and Cosmology: PHYSICS 18N (Win)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

William DeRocco

#### Doctoral Dissertation Advisor (AC)

David Cyncynates, Marios Galanis, Anirudh Prabhu, Olivier Simon, Jed Thompson

#### Doctoral (Program)

Kfir Dolev, Marios Galanis, Zhaoyu Han, Saarik Kalia, Alexander Madurowicz, Dayshon Mathis, Connie Mousatov, Murtaza Safdari, Milind Shyani, Rachel Smith, George Wojcik, Andrew Yuan

## Publications

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### PUBLICATIONS

- **Black hole mergers and the QCD axion at Advanced LIGO** *PHYSICAL REVIEW D*  
Arvanitaki, A., Baryakhtar, M., Dimopoulos, S., Dubovsky, S., Lasenby, R.  
2017; 95 (4)
- **A collider observable QCD axion** *JOURNAL OF HIGH ENERGY PHYSICS*  
Dimopoulos, S., Hook, A., Huang, J., Marques-Tavares, G.  
2016
- **Sound of Dark Matter: Searching for Light Scalars with Resonant-Mass Detectors.** *Physical review letters*  
Arvanitaki, A., Dimopoulos, S., Van Tilburg, K.

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2016; 116 (3): 031102-?

- **Auto-concealment of supersymmetry in extra dimensions** *JOURNAL OF HIGH ENERGY PHYSICS*  
Dimopoulos, S., Howe, K., March-Russell, J., Scoville, J.  
2015
- **Maximally Natural Supersymmetry** *PHYSICAL REVIEW LETTERS*  
Dimopoulos, S., Howe, K., March-Russell, J.  
2014; 113 (11)
- **Mini-Split** *JOURNAL OF HIGH ENERGY PHYSICS*  
Arvanitaki, A., Craig, N., Dimopoulos, S., Villadoro, G.  
2013
- **Split families unified** *JOURNAL OF HIGH ENERGY PHYSICS*  
Craig, N., Dimopoulos, S., Gherghetta, T.  
2012
- **Phenomenology of TeV Little String Theory from Holography** *PHYSICAL REVIEW LETTERS*  
Antoniadis, I., Arvanitaki, A., Dimopoulos, S., Giveon, A.  
2012; 108 (8)
- **String axiverse** *PHYSICAL REVIEW D*  
Arvanitaki, A., Dimopoulos, S., Dubovsky, S., Kaloper, N., March-Russell, J.  
2010; 81 (12)
- **String photini at the LHC** *PHYSICAL REVIEW D*  
Arvanitaki, A., Craig, N., Dimopoulos, S., Dubovsky, S., March-Russell, J.  
2010; 81 (7)
- **Decaying dark matter as a probe of unification and TeV spectroscopy** *PHYSICAL REVIEW D*  
Arvanitaki, A., Dimopoulos, S., Dubovsky, S., Graham, P. W., Harnik, R., Rajendran, S.  
2009; 80 (5)
- **Gravitational wave detection with atom interferometry** *PHYSICS LETTERS B*  
Dimopoulos, S., Graham, P. W., Hogan, J. M., Kasevich, M. A., Rajendran, S.  
2009; 678 (1): 37-40
- **Astrophysical probes of unification** *PHYSICAL REVIEW D*  
Arvanitaki, A., Dimopoulos, S., Dubovsky, S., Graham, P. W., Harnik, R., Rajendran, S.  
2009; 79 (10)
- **Atomic gravitational wave interferometric sensor** *PHYSICAL REVIEW D*  
Dimopoulos, S., Graham, P. W., Hogan, J. M., Kasevich, M. A., Rajendran, S.  
2008; 78 (12)
- **General relativistic effects in atom interferometry** *PHYSICAL REVIEW D*  
Dimopoulos, S., Graham, P. W., Hogan, J. M., Kasevich, M. A.  
2008; 78 (4)
- **N-flation** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
Dimopoulos, S., Kachru, S., McGreevy, J., Wacker, J. G.  
2008
- **How to test atom and neutron neutrality with atom interferometry** *PHYSICAL REVIEW LETTERS*  
Arvanitaki, A., Dimopoulos, S., Geraci, A. A., Hogan, J., Kasevich, M.  
2008; 100 (12)
- **Stopping gluinos** *PHYSICAL REVIEW D*  
Arvanitaki, A., Dimopoulos, S., Pierce, A., Rajendran, S., Wacker, J.

2007; 76 (5)

- **Testing general relativity with atom interferometry** *PHYSICAL REVIEW LETTERS*  
Dimopoulos, S., Graham, P. W., Hogan, J. M., Kasevich, M. A.  
2007; 98 (11)
- **Supersymmetric unification without low energy supersymmetry and signatures for fine-tuning at the LHC** *JOURNAL OF HIGH ENERGY PHYSICS*  
Arkani-Hamed, N., Dimopoulos, S.  
2005
- **Splitting supersymmetry in string theory** *NUCLEAR PHYSICS B*  
Antoniadis, I., Dimopoulos, S.  
2005; 715 (1-2): 120-140
- **Aspects of split supersymmetry** *NUCLEAR PHYSICS B*  
Arkani-Hamed, N., Dimopoulos, S., Giudice, G. F., Romanino, A.  
2005; 709 (1-2): 3-46
- **Generating small numbers by tunneling in multi-throat compactifications** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*  
Dimopoulos, S., Kachru, S., Kaloper, N., Lawrence, A., Silverstein, E.  
2004; 19 (16): 2657-2704
- **Probing submicron forces by interferometry of Bose-Einstein condensed atoms** *PHYSICAL REVIEW D*  
Dimopoulos, S., Geraci, A. A.  
2003; 68 (12)
- **Discretuum versus continuum dark energy** *PHYSICS LETTERS B*  
Dimopoulos, S., Thomas, S.  
2003; 573 (1-4): 13-19
- **Large new dimensions and quantum gravity around the corner** *COMPTES RENDUS PHYSIQUE*  
Arkani-Hamed, N., Dimopoulos, S., Dvali, G.  
2003; 4 (3): 347-354
- **Electroweak unification into a five-dimensional SU(3) at a TeV** *PHYSICS LETTERS B*  
Dimopoulos, S., Kaplan, D. E., Weiner, N.  
2002; 534 (1-4): 124-130
- **The weak mixing angle from an SU(3) symmetry at a TeV** *PHYSICS LETTERS B*  
Dimopoulos, S., Kaplan, D. E.  
2002; 531 (1-2): 127-134
- **New origin for approximate symmetries from distant breaking in extra dimensions** *PHYSICAL REVIEW D*  
Arkani-Hamed, N., Dimopoulos, S.  
2002; 65 (5)
- **String balls at the LHC and beyond** *PHYSICS LETTERS B*  
Dimopoulos, S., Emparan, R.  
2002; 526 (3-4): 393-398
- **Large extra dimensions: A new arena for particle physics** *PHYSICS TODAY*  
Arkani-Hamed, N., Dimopoulos, S., Dvali, G.  
2002; 55 (2): 35-40
- **Neutrino masses from large extra dimensions** *PHYSICAL REVIEW D*  
Arkani-Hamed, N., Dimopoulos, S., Dvali, G., March-Russell, J.  
2002; 65 (2)
- **Small numbers from tunneling between brane throats** *PHYSICAL REVIEW D*  
Dimopoulos, S., Kachru, S., Kaloper, N., Lawrence, A., Silverstein, E.

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2001; 64 (12)

- **Black holes at the large hadron collider** *PHYSICAL REVIEW LETTERS*  
Dimopoulos, S., Landsberg, G.  
2001; 87 (16)
- **Soft supersymmetry breaking and the Supersymmetric Standard Model** *International Symposium Celebrating 30 Years of Supersymmetry*  
Dimopoulos, S.  
ELSEVIER SCIENCE BV.2001: 183–194
- **Little string theory at a TeV** *JOURNAL OF HIGH ENERGY PHYSICS*  
Antoniadis, I., Dimopoulos, S., Gidon, A.  
2001
- **Stabilization of submillimeter dimensions: The new guise of the hierarchy problem** *PHYSICAL REVIEW D*  
Arkani-Hamed, N., Dimopoulos, S., March-Russell, J.  
2001; 63 (6)
- **Manyfold universe** *JOURNAL OF HIGH ENERGY PHYSICS*  
Arkani-Hamed, N., Dimopoulos, S., Kaloper, N., Dvali, G.  
2000
- **The universe's unseen dimensions** *SCIENTIFIC AMERICAN*  
Arkani-Hamed, N., Dimopoulos, S., Dvali, G.  
2000; 283 (2): 62-?
- **A small cosmological constant from a large extra dimension** *PHYSICS LETTERS B*  
Arkani-Hamed, N., Dimopoulos, S., Kaloper, N., Sundrum, R.  
2000; 480 (1-2): 193-199
- **Rapid asymmetric inflation and early cosmology in theories with sub-millimeter dimensions** *NUCLEAR PHYSICS B*  
Arkani-Hamed, N., Dimopoulos, S., Kaloper, N., March-Russell, J.  
2000; 567 (1-2): 189-228
- **Infinitely large new dimensions** *PHYSICAL REVIEW LETTERS*  
Arkani-Hamed, N., Dimopoulos, S., Dvali, G., Kaloper, N.  
2000; 84 (4): 586-589
- **Phenomenology, astrophysics, and cosmology of theories with submillimeter dimensions and TeV scale quantum gravity** *PHYSICAL REVIEW D*  
Arkani-Hamed, N., Dimopoulos, S., Dvali, G.  
1999; 59 (8)
- **Soft masses in theories with supersymmetry breaking by TeV compactification** *NUCLEAR PHYSICS B*  
Antoniadis, I., Dimopoulos, S., Pomarol, A., Quiros, M.  
1999; 544 (3): 503-519
- **Early inflation and cosmology in theories with sub-millimeter dimensions** *2nd International Workshop on Particle Physics and the Early Universe*  
Arkani-Hamed, N., Dimopoulos, S., Kaloper, N., March-Russell, J.  
AMER INST PHYSICS.1999: 237–243
- **Black holes and sub-millimeter dimensions** *PHYSICS LETTERS B*  
Argyres, P. C., Dimopoulos, S., March-Russell, J.  
1998; 441 (1-4): 96-104
- **New dimensions at a millimeter to a fermi and superstrings at a TeV** *PHYSICS LETTERS B*  
Antoniadis, I., Arkani-Hamed, N., Dimopoulos, S., Dvali, G.  
1998; 436 (3-4): 257-263
- **The hierarchy problem and new dimensions at a millimeter** *PHYSICS LETTERS B*  
Arkani-Hamed, N., Dimopoulos, S., Dvali, G.

1998; 429 (3-4): 263-272

- **Millimetre-range forces in superstring theories with weak-scale compactification** *NUCLEAR PHYSICS B*  
Antoniadis, I., Dimopoulos, S., Dvali, G.  
1998; 516 (1-2): 70-82
- **Dynamical soft terms with unbroken supersymmetry** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Dvali, G., Rattazzi, R., Giudice, G. F.  
1998; 510 (1-2): 12-38
- **A simple complete model of Gauge-mediated SUSY-breaking and dynamical relaxation mechanism for solving the mu-problem** *PHYSICS LETTERS B*  
Dimopoulos, S., Dvali, G., Rattazzi, R.  
1997; 413 (3-4): 336-341
- **Dynamical inflation and unification scale on quantum moduli spaces** *PHYSICS LETTERS B*  
Dimopoulos, S., Dvali, G., Rattazzi, R.  
1997; 410 (2-4): 119-124
- **Sparticle spectroscopy and electroweak symmetry breaking with gauge-mediated supersymmetry breaking** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Thomas, S., Wells, J. D.  
1997; 488 (1-2): 39-91
- **Multi-messenger theories of gauge-mediated supersymmetry breaking** *PHYSICS LETTERS B*  
Dimopoulos, S., Giudice, G. F.  
1997; 393 (1-2): 72-78
- **Phenomenological implications of low energy supersymmetry breaking** *Proceedings of the 4th International Conference on Supersymmetry, SUSY 96*  
Dimopoulos, S., Dine, M., Raby, S., Thomas, S., Wells, J. D.  
ELSEVIER SCIENCE BV.1997: 38-42
- **Dark matter in theories of gauge-mediated supersymmetry breaking** *PHYSICS LETTERS B*  
Dimopoulos, S., Giudice, G. F., Pomarol, A.  
1996; 389 (1): 37-42
- **Stability bounds on flavor-violating trilinear soft terms in the MSSM** *PHYSICS LETTERS B*  
Casas, J. A., Dimopoulos, S.  
1996; 387 (1): 107-112
- **Implications of low energy supersymmetry breaking at the Fermilab Tevatron** *PHYSICAL REVIEW D*  
Dimopoulos, S., Thomas, S., Wells, J. D.  
1996; 54 (5): 3283-3288
- **Macroscopic forces from supersymmetry** *PHYSICS LETTERS B*  
Dimopoulos, S., Giudice, G. F.  
1996; 379 (1-4): 105-114
- **Experimental signatures of low energy gauge-mediated supersymmetry breaking** *PHYSICAL REVIEW LETTERS*  
Dimopoulos, S., Dine, M., Raby, S., Thomas, S.  
1996; 76 (19): 3494-3497
- **Dynamical relaxation of the supersymmetric CP violating phases** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Thomas, S.  
1996; 465 (1-2): 23-33
- **A dynamical approach for suppressing supersymmetric flavor violations** *1995 International Workshop on Supersymmetry and Unification of Fundamental Interactions (Susy 95)*  
Dimopoulos, S., Giudice, G. F., Tetradis, N.  
EDITIONS FRONTIERES.1996: 201-209
- **DISORIENTED AND PLASTIC SOFT TERMS - A DYNAMICAL SOLUTION TO THE PROBLEM OF SUPERSYMMETRIC FLAVOR VIOLATIONS** *NUCLEAR PHYSICS B*

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- Dimopoulos, S., Giudice, G. F., Tetradis, N.  
1995; 454 (1-2): 59-74
- **SUPERFIELD DERIVATION OF THE LOW-ENERGY EFFECTIVE THEORY OF SOFTLY BROKEN SUPERSYMMETRY** *NUCLEAR PHYSICS B*  
Pomarol, A., Dimopoulos, S.  
1995; 453 (1-2): 83-99
  - **THE SUPERSYMMETRIC FLAVOR PROBLEM** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Sutter, D.  
1995; 452 (3): 496-512
  - **Fermion masses, mixing angles, and supersymmetric SO(10) unification** *PHYSICAL REVIEW D*  
Carena, M., Dimopoulos, S., Wagner, C. E., Raby, S.  
1995; 52 (7): 4133-4142
  - **NON-UNIFIED SPARTICLE AND PARTICLE MASSES IN UNIFIED THEORIES** *PHYSICS LETTERS B*  
Dimopoulos, S., Pomarol, A.  
1995; 353 (2-3): 222-227
  - **ELECTRIC-DIPOLE MOMENTS AS A TEST OF SUPERSYMMETRIC UNIFICATION** *PHYSICS LETTERS B*  
Dimopoulos, S., Hall, L. J.  
1995; 344 (1-4): 185-192
  - **SYSTEMATIC SO(10) OPERATOR ANALYSIS FOR FERMION MASSES** *PHYSICAL REVIEW D*  
Anderson, G., Dimopoulos, S., Hall, L. J., Raby, S., Starkman, G. D.  
1994; 49 (7): 3660-3690
  - **PREDICTIVE ANSATZ FOR FERMION MASS MATRICES IN SUPERSYMMETRIC GRAND UNIFIED THEORIES** *PHYSICAL REVIEW D*  
Dimopoulos, S., Hall, L. J., Raby, S.  
1992; 45 (11): 4192-4200
  - **PREDICTIVE FRAMEWORK FOR FERMION MASSES IN SUPERSYMMETRIC THEORIES** *PHYSICAL REVIEW LETTERS*  
Dimopoulos, S., Hall, L. J., Raby, S.  
1992; 68 (13): 1984-1987
  - **UNIFICATION OF COUPLINGS** *PHYSICS TODAY*  
Dimopoulos, S., RABY, S. A., Wilczek, F.  
1991; 44 (10): 25-33
  - **PRIMORDIAL NUCLEOSYNTHESIS WITHOUT A COMPUTER** *ASTROPHYSICAL JOURNAL*  
Esmailzadeh, R., Starkman, G. D., Dimopoulos, S.  
1991; 378 (2): 504-518
  - **TEV DARK MATTER** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Esmailzadeh, R., Hall, L. J., Tetradis, N.  
1991; 349 (3): 714-726
  - **THE VACUUM ABHORS TOP-BAGS** *PHYSICS LETTERS B*  
Dimopoulos, S., Lynn, B. W., SELIPSKY, S., Tetradis, N.  
1991; 253 (1-2): 237-240
  - **ELECTROWEAK PHASE-TRANSITION AND DARK MATTER ABUNDANCE** *PHYSICS LETTERS B*  
Dimopoulos, S., Esmailzadeh, R., Hall, L., Tetradis, N.  
1990; 247 (4): 601-606
  - **OPENING THE WINDOW ON STRONGLY INTERACTING DARK MATTER** *PHYSICAL REVIEW D*  
Starkman, G. D., Gould, A., Esmailzadeh, R., Dimopoulos, S.  
1990; 41 (12): 3594-3603
  - **GETTING A CHARGE OUT OF DARK MATTER** *PHYSICAL REVIEW D*  
Dimopoulos, S., Eichler, D., Esmailzadeh, R., Starkman, G. D.

1990; 41 (8): 2388-2397

- **CROSS-SECTIONS FOR LEPTON-NUMBER-VIOLATING AND BARYON-NUMBER-VIOLATING PROCESSES FROM SUPERSYMMETRY AT P-P COLLIDERS** *PHYSICAL REVIEW D*  
Dimopoulos, S., Esmailzadeh, R., Hall, L. J., Merlo, J. P., Starkman, G. D.  
1990; 41 (7): 2099-2112
- **LIMITS ON LATE DECAYING PARTICLES FROM NUCLEOSYNTHESIS** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Esmailzadeh, R., Hall, L. J., Starkman, G. D.  
1989; 311 (3): 699-718
- **IS THE UNIVERSE CLOSED BY BARYONS - NUCLEOSYNTHESIS WITH A LATE-DECAYING MASSIVE PARTICLE** *ASTROPHYSICAL JOURNAL*  
Dimopoulos, S., Esmailzadeh, R., Hall, L. J., Starkman, G. D.  
1988; 330 (2): 545-568
- **LEPTON-NUMBER AND BARYON-NUMBER VIOLATING COLLIDER SIGNATURES FROM SUPERSYMMETRY** *PHYSICS LETTERS B*  
Dimopoulos, S., Hall, L. J.  
1988; 207 (2): 210-216
- **INFLATION AND INVISIBLE AXIONS** *PHYSICAL REVIEW LETTERS*  
Dimopoulos, S., Hall, L. J.  
1988; 60 (19): 1899-1901
- **KILOELECTRONVOLT-ERA NUCLEOSYNTHESIS AND ITS IMPLICATIONS** *PHYSICAL REVIEW LETTERS*  
Dimopoulos, S., Esmailzadeh, R., Hall, L. J., Starkman, G. D.  
1988; 60 (1): 7-10
- **AXIONS AND STARS** *PHYSICAL REVIEW D*  
Frieman, J. A., Dimopoulos, S., Turner, M. S.  
1987; 36 (8): 2201-2210
- **BARYOGENESIS AT THE MEV ERA** *PHYSICS LETTERS B*  
Dimopoulos, S., Hall, L. J.  
1987; 196 (2): 135-141
- **LABORATORY LIMITS ON SOLAR AXIONS FROM AN ULTRALOW-BACKGROUND GERMANIUM SPECTROMETER** *PHYSICAL REVIEW D*  
Avignone, F. T., Brodzinski, R. L., Dimopoulos, S., Starkman, G. D., Drukier, A. K., Spergel, D. N., Gelmini, G., Lynn, B. W.  
1987; 35 (9): 2752-2757
- **AXIORECOMBINATION - A NEW MECHANISM FOR STELLAR AXION PRODUCTION** *PHYSICS LETTERS B*  
Dimopoulos, S., Frieman, J., Lynn, B. W., Starkman, G. D.  
1986; 179 (3): 223-227
- **CP NONCONSERVATION AT THE UNIFICATION SCALE** *PHYSICAL REVIEW LETTERS*  
Athanasia, G. G., Dimopoulos, S., Gilman, F. J.  
1986; 57 (16): 1982-1985
- **ATOMIC ENHANCEMENTS IN THE DETECTION OF WEAKLY INTERACTING PARTICLES** *PHYSICS LETTERS B*  
Dimopoulos, S., Starkman, G. D., Lynn, B. W.  
1986; 168 (1-2): 145-150
- **PROBING THE DESERT WITH FERMION MASSES** *PHYSICAL REVIEW LETTERS*  
Bagger, J., Dimopoulos, S., Masso, E.  
1985; 55 (14): 1450-1452
- **HEAVY FAMILIES - MASSES AND MIXINGS** *NUCLEAR PHYSICS B*  
Bagger, J., Dimopoulos, S., Masso, E.  
1985; 253 (3-4): 397-420
- **EXPERIMENTAL CONSEQUENCES OF FAMILY UNIFICATION** *PHYSICAL REVIEW LETTERS*



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- Bagger, J., Dimopoulos, S., Masso, E., Reno, M. H.  
1985; 54 (20): 2199-2202
- **FLIPPING AWAY PROTON DECAY** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Hall, L. J.  
1985; 255 (3-4): 633-647
  - **A REALISTIC THEORY OF FAMILY UNIFICATION** *NUCLEAR PHYSICS B*  
Bagger, J. A., Dimopoulos, S., Masso, E., Reno, M. H.  
1985; 258 (3-4): 565-600
  - **RENORMALIZATION-GROUP CONSTRAINTS IN SUPERSYMMETRIC THEORIES** *PHYSICAL REVIEW LETTERS*  
Bagger, J., Dimopoulos, S., Masso, E.  
1985; 55 (9): 920-922
  - **HEAVY FAMILY MASSES - ANALYTIC RESULTS** *PHYSICS LETTERS B*  
Dimopoulos, S., Theodorakis, S.  
1985; 154 (2-3): 153-158
  - **RENORMALIZATION-GROUP CONSTRAINTS IN 2-HIGGS THEORIES** *PHYSICS LETTERS B*  
Bagger, J., Dimopoulos, S., Masso, E.  
1985; 156 (5-6): 357-361
  - **EXTENDED SURVIVAL HYPOTHESIS AND FERMION MASSES** *PHYSICS LETTERS B*  
Dimopoulos, S., Georgi, H. M.  
1984; 140 (1-2): 67-70
  - **COMPOSITE HIGGS SCALARS** *PHYSICS LETTERS B*  
Kaplan, D. B., Georgi, H., Dimopoulos, S.  
1984; 136 (3): 187-190
  - **PROTON LIFETIME IN ORTHOGONAL THEORIES OF FAMILY UNIFICATION** *PHYSICS LETTERS B*  
Bagger, J., Dimopoulos, S., Masso, E.  
1984; 145 (3-4): 211-215
  - **O(18) REVIVED - SPLITTING THE SPINOR** *NUCLEAR PHYSICS B*  
Bagger, J., Dimopoulos, S.  
1984; 244 (1): 247-261
  - **GEOMETRIC HIERARCHY** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Raby, S.  
1983; 219 (2): 479-512
  - **NATURAL GENERATION OF FERMION MASSES** *PHYSICS LETTERS B*  
Dimopoulos, S.  
1983; 129 (6): 417-428
  - **TECHNICOLOR GIMNASTYCS** *PHYSICS LETTERS B*  
Dimopoulos, S., Georgi, H., Raby, S.  
1983; 127 (1-2): 101-105
  - **NEW INFLATION IN SUPERSYMMETRIC THEORIES** *NUCLEAR PHYSICS B*  
Albrecht, A., Dimopoulos, S., Fischler, W., Kolb, E. W., Raby, S., Steinhardt, P. J.  
1983; 229 (2): 528-540
  - **PROTON DECAY IN SUPERSYMMETRIC MODELS** *PHYSICS LETTERS B*  
Dimopoulos, S., Raby, S., Wilczek, F.  
1982; 112 (2): 133-136
  - **SOLUTION OF THE GAUGE HIERARCHY PROBLEM** *PHYSICS LETTERS B*  
Dimopoulos, S., Georgi, H.

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- 1982; 117 (5): 287-290
- **AUTOMATIC INVISIBLE AXION WITHOUT DOMAIN-WALLS** *PHYSICS LETTERS B*  
Dimopoulos, S., Frampton, P. H., Georgi, H., Wise, M. B.  
1982; 117 (3-4): 185-188
  - **IS THERE A LOCAL SOURCE OF MAGNETIC MONOPOLES** *NATURE*  
Dimopoulos, S., Glashow, S. L., Purcell, E. M., Wilczek, F.  
1982; 298 (5877): 824-825
  - **CATALYZED NUCLEON DECAY IN NEUTRON STARS** *PHYSICS LETTERS B*  
Dimopoulos, S., Preskill, J., Wilczek, F.  
1982; 119 (4-6): 320-322
  - **MASSLESS COMPOSITES WITH MASSIVE CONSTITUENTS** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Preskill, J.  
1982; 199 (2): 206-222
  - **MASS GENERATION BY NON-STRONG INTERACTIONS** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Susskind, L.  
1981; 191 (2): 370-380
  - **SOFTLY BROKEN SUPERSYMMETRY AND SU(5)** *NUCLEAR PHYSICS B*  
Dimopoulos, S., Georgi, H.  
1981; 193 (1): 150-162
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