

**Curriculum Vita****Nima Arkani-Hamed**

School of Natural Sciences, Institute for Advanced Study,  
 1 Einstein Drive, Princeton, NJ 08540 USA,  
 (609) 734-8078, arkani@ias.edu  
 Citizenship: USA and Canada, D.O.B. April 5, 1972

**Education**

|                                |                       |      |
|--------------------------------|-----------------------|------|
| Ph.D., Physics                 | U.C. Berkeley         | 1997 |
| B.Sc., Mathematics and Physics | University of Toronto | 1993 |

**Academic Positions**

|                                |                              |             |
|--------------------------------|------------------------------|-------------|
| Gopal Prasad Professor         | Institute for Advanced Study | 2008-       |
| Professor of Physics           | Harvard University           | 2002 - 2007 |
| Visiting Professor of Physics  | Harvard University           | 2001 - 2002 |
| Associate Professor of Physics | U.C. Berkeley                | 2001        |
| Assistant Professor of Physics | U.C. Berkeley                | 1999 - 2001 |
| Postdoctoral Fellow            | SLAC                         | 1997 - 1999 |

**Awards and Honors**

|                                                      |                                                                           |             |
|------------------------------------------------------|---------------------------------------------------------------------------|-------------|
| Frontiers of Science Award<br>in Fundamental Physics | International Congress of Basic Science                                   | 2024        |
| Member                                               | Elementary Particle Physics Decadal:<br>Progress & Promise Committee, NAS | 2022 -      |
| J.J. Sakurai Prize                                   | American Physical Society                                                 | 2022        |
| Member                                               | National Academy of Sciences                                              | 2017        |
| AD White Prof. at Large                              | Cornell University                                                        | 2013 - 2019 |
| Fundamental Physics Prize                            | Breakthrough Prize Foundation                                             | 2012        |
| Messenger Lectures                                   | Cornell University                                                        | 2010        |
| Member                                               | AAAS                                                                      | 2009        |
| Sackler Prize                                        | Tel Aviv University                                                       | 2008        |
| Phi Beta Kappa teaching award                        | Harvard University                                                        | 2005        |
| Gribov Medal                                         | European Physical Society                                                 | 2003        |
| Packard Fellowship                                   | U.C. Berkeley                                                             | 2000 - 2005 |
| Sloan Fellowship                                     | U.C. Berkeley                                                             | 2000 - 2002 |

**Graduate Students Supervised**

|                     | <b>Current Position</b>                        | <b>Graduated</b> |
|---------------------|------------------------------------------------|------------------|
| Jeffrey Backus      | Graduate Student, Princeton University         | n/a              |
| Daniel Longenecker  | Graduate Student, Princeton University         | n/a              |
| Carolina Figueiredo | Graduate Student, Princeton University         | n/a              |
| Weiming Zhao        | Graduate Student, Princeton University         | n/a              |
| Aaron Hillman       | Post-doc Research Associate, Caltech           | 2023             |
| Brad Bachu          | Research Scientist, Uniswap Labs               | 2023             |
| Akshay Yelleshpur   | Post-doc Research Associate, Oxford University | 2020             |
| Yuntao Bai          | Technical Staff, Anthropic                     | 2018             |
| Laurentiu Rodina    | Assistant Professor, BIMSA                     | 2017             |
| David McGady        | Data Scientist, Handelsbanken                  | 2015             |
| Jaroslav Trnka      | Professor, UC-Davis                            | 2013             |
| Jacob Bourjaily     | Assoc. Prof. of Physics, Penn State Univ.      | 2011             |
| Josh Ruderman       | Associate Professor, NYU                       | 2011             |
| Matt Baumgart       | Assistant Professor, Arizona State Univ.       | 2009             |
| Clifford Cheung     | Professor, Caltech                             | 2009             |

|                   |                                           |      |
|-------------------|-------------------------------------------|------|
| Jared Kaplan      | Associate Professor, Johns Hopkins Univ.  | 2009 |
| Philip Schuster   | Professor, SLAC                           | 2007 |
| Natalia Toro      | Professor, SLAC                           | 2007 |
| Can Kilic         | Professor, UT-Austin                      | 2006 |
| Rakhi Mahbubani   | Research Assoc, Rudjer Boskovic Institute | 2006 |
| Leonardo Senatore | Professor, ETH Zurich                     | 2006 |
| Jesse Thaler      | Professor, MIT                            | 2006 |
| Devin Walker      | Assistant Professor, Dartmouth            | 2006 |
| Itay Yavin        | Junior Faculty, Perimeter Inst./McMaster  | 2006 |
| Thomas Gregoire   | Professor, Carleton University            | 2003 |
| Jay Wacker        | Manager, Ontology Development, Apple      | 2003 |

### Nima Arkani-Hamed Publications

1. Nima Arkani-Hamed, H. Frost, G. Salvatori, “The Cut Equation”, (2024), hep-th/2412.21027.
2. Nima Arkani-Hamed, C. Figueiredo, G. Remen, “Open String Amplitudes: Singularities, Asymptotics, and New Representations”, (2024), hep-th/2412.20639.
3. Nima Arkani-Hamed, C. Figueiredo, F. Vazão, “Cosmohedra”, (2024), hep-th/2412-19881.
4. Nima Arkani-Hamed, Q. Cao, J. Dong, et al, (2024), “Surface Kinematics and "The" Yang-Mills Integrand”, (2024), hep-th/2408-11891.
5. Nima Arkani-Hamed, C. Figueiredo, “All-order splits and multi-soft limits for particle and string amplitudes”, (2024), hep-th/2405-09608.
6. Nima Arkani Hamed, C. Figueiredo, “Circles and Triangles, the NLSM and  $\text{Tr}(\Phi^3)$ ”, (2024), hep-th/2403-04826.
7. Nima Arkani-Hamed, C. Figueiredo, H. Frost, G. Salvatori, “Tropical Amplitudes For Colored Lagrangians”, (2024) hep-th/2402-06719.
8. Nima Arkani-Hamed, Q. Cao, J. Dong et al, “Nonlinear Sigma model amplitudes to all loop orders are contained in the  $\text{Tr}(\Phi^3)$  theory”, (2024), hep-th/2401-05483.
9. Nima Arkani-Hamed, Q. Cao, J. Dong et al, “Scalar-Scaffolded Gluons and the Combinatorial Origins of Yang-Mills Theory” (2023), hep-th/2401-00041.
10. Nima Arkani-Hamed, Q. Cao, J. Dong et al, “Hidden zeros for particle/string amplitudes and the unity of colored scalars, pions and gluons”, (2023), hep-th/2312-16282.
11. Nima Arkani-Hamed, C. Cheung, C. Figueiredo, G. Remmen, “Multiparticle Factorization and the Rigidity of String Theory”, (2023), hep-th/2312-07652.
12. Nima Arkani-Hamed, D. Baumann, A. Hillman, et al, “Kinematic Flow and the Emergence of Time”, (2023), hep-th/2312-05300.
13. Nima Arkani-Hamed, D. Baumann, A. Hillman, et al, “Differential Equations for Cosmological Correlators”, (2023), hep-th/2312-05303.
14. Nima Arkani-Hamed, W. Flieger, J. Henn, et al, “Coulomb Branch Amplitudes from a Deformed Amplituhedron Geometry”, (2023), hep-th/2311-10814.

15. Nima Arkani-Hamed, H. Frost, G. Salvatori, et al, “All Loop Scattering For All Multiplicity”, (2023), hep-th/2311-09284.
16. Nima Arkani-Hamed, H. Frost, G. Salvatori, et al, “All Loop Scattering As A Counting Problem”, (2023), hep-th/2309-15913
17. Nima Arkani-Hamed, L. Dixon, A. McLeod, M. Spradlin, J. Trnka, et al., “Solving Scattering  $N=4$  Super-Yang Mills Theory”, (2022), hep-th/2207.10636.
18. Nima Arkani-Hamed, A. Hillman, and S. Mizera, “Feynman polytopes and the tropical geometry of UV and IR divergences”, (2022), hep-th/2202.12296.
19. Nima Arkani-Hamed, L. Eberhardt, Y. Huang, and S. Mizera, “On unitarity of tree-level string amplitudes”, (2022), hep-th/2201.11575.
20. Nima Arkani-Hamed, J. Henn and J. Trnka, “Nonperturbative negative geometries: amplitudes at strong coupling and the amplituhedron”, (2021), hep-th/2112.06956.
21. Nima Arkani-Hamed, Y. Huang, J. Liu, and G. Remmen, “Causality, unitarity and the weak gravity conjecture”, (2021), hep-th/2109.13937.
22. Nima Arkani-Hamed and K. Harigaya, “Naturalness and the muon magnetic moment”, (2021), hep-ph/2106.01373.
23. H. Ali, Nima Arkani-Hamed, I. Banta, S. Benevides, D. Buttazzo, et al., “The muon Smasher’s guide”, (2021), hep-ph/2103.14043.
24. Nima Arkani-Hamed, T. Huang and Y. Huang, “The EFT-Hedron”, (2020), hep-th/2012.15849.
25. Nima Arkani-Hamed, R.T. D’Agnolo and H.D. Kim, “Weak scale as a trigger”, (2020), hep-ph/2012.04652.
26. Nima Arkani-Hamed, A. Raclariu and A. Strominger, “Celestial amplitudes from UV to IR”, (2020), hep-th/2012.04208.
27. Nima Arkani-Hamed, S. He and T. Lam, “Cluster Configuration Spaces of Finite Type”, (2020), math.AG/2005.11419.
28. Nima Arkani-Hamed, T. Lam and M. Spradlin, “Positive configuration space”, (2020), math.co/2003.03904.
29. Nima Arkani-Hamed, S. He, G. Salvatori and H. Thomas, “Causal Diamonds, Cluster Polytopes and Scattering Amplitudes”, (2019), hep-th/1912.12948.
30. Nima Arkani-Hamed, S. He, T. Lam and H. Thomas, “Binary Geometries, Generalized Particles and Strings, and Cluster Algebras”, (2019), hep-th/1912.11764.
31. Nima Arkani-Hamed, S. He and T. Lam, “Stringy Canonical Forms”, (2019), hep-th/1912.08707.
32. Nima Arkani-Hamed, T. Lam and M. Spradlin, “Non-perturbative geometries for planar  $N=4$  SYM amplitudes”, (2019), hep-th/1912.08222.

33. Nima Arkani-Hamed, Y.-T. Huang and D. O'Connell, "Kerr Black Holes as Elementary Particles", (2020), *JHEP* 01 (2020), hep-th/1906.10110.
34. Nima Arkani-Hamed, C. Langer, A. Y. Strikant and J. Trnka, "Deep Into the Amplituhedron: Amplitude Singularities at All Loops and Legs", (2019), *Phys. Rev. Lett.* **122**, 051601, hep-th/1810.08208.
35. Nima Arkani-Hamed, Y.-T. Huang and S.-H. Shao, "On the Positive Geometry of Conformal Field Theory", (2018), hep-th/1812.07739.
36. Nima Arkani-Hamed and P. Benincasa, "On the Emergence of Lorentz Invariance and Unitarity from the Scatter Facet of Cosmological Polytopes", (2018), hep-th/1811.01125.
37. Nima Arkani-Hamed, D. Baumann, H. Lee and G. L. Pimentel, "The Cosmological Bootstrap: Inflationary Correlators from Symmetries and Singularities", (2018), hep-th/1811.00024
38. Nima Arkani-Hamed and Ellis Ye Yuan, "One-Loop Integrals form Spherical Projections of Planes and Quadrics", (2017), hep-th/1712.09991.
39. Nima Arkani-Hamed, T.-C. Huang, and Y-T. Huang, "Scattering Amplitudes for All Masses and Spins", (2017), hep-th/1709.04891.
40. Nima Arkani-Hamed, Y. Bai, S. He and G. Yan, "Scattering Forms and the Positive Geometry of Kinematics, Color and the Worldsheet", (2018), *JHEP* **1805**, 096; hep-th/1711.09102.
41. Nima Arkani-Hamed, P. Benincasa, and A. Postnikov, "Cosmological Polytopes and the Wavefunction of the Universe", (2017), hep-th/1709.02813.
42. Nima Arkani-Hamed, H. Thomas and J. Trnka, "Unwinding the Amplituhedron in Binary", (2018), *JHEP* **1801**, 016; hep-th/1704.05069.
43. Nima Arkani-Hamed, Y. Bai and T. Lam, "Positive Geometries and Canonical Forms", *JHEP* **1711**, 039; (2017), hep-th/1703.04541.
44. Nima Arkani-Hamed, L. Rodina and J. Trnka, "Locality and Unitarity from Singularities and Gauge Invariance", (2018), *Phys. Rev. Lett.* **120**, 231602; hep-th/1612.02797.
45. Nima Arkani-Hamed, R.T. D'Agnolo, M. Low and D. Pinner, "Unification and New Particles at the LHC", (2016), *JHEP* **1611**, 082; hep-ph/1608.01675.
46. Nima Arkani-Hamed, T. Cohen, R.T. D'Agnolo, A. Hook, H.D. Kim and D. Pinner, "Solving the Hierarchy Problem at Reheating with a Large Number of Degrees of Freedom", (2016) *Phys. Rev. Lett.* **117**, 251801, hep-ph/1607.06821.
47. Nima Arkani-Hamed, T. Han, M. Mangano and L.-T. Wang, "Physics Opportunities of a 100 TeV Proton-Proton Collider", (2016), *Phys. Rept.* **659**, 1-49; hep-ph/1411.06495.
48. Nima Arkani-Hamed and J. Maldacena, "Cosmological Collider Physics", (2015), hep-th/1503.08043.
49. Nima Arkani-Hamed, A. Hodges and J. Trnka, "Positive Amplitudes In the Amplituhedron", (2016), *JHEP* **1508**, 030; hep-th/1412.8478
50. Nima Arkani-Hamed, J. L. Bourjaily, F. Cachazo, A. Postnikov and J. Trnka, "On-Shell Structures of MHV Amplitudes Beyond the Planar Limit", (2015), *JHEP* **1506**, 179; hep-th/1412.8475.

51. Nima Arkani-Hamed, J.L. Bourjaily, F. Cachazo and J. Trnka, “Singularity Structure of Maximally Supersymmetric Scattering Amplitudes”, (2014), *Phys. Rev. Lett.* **113**, 261603, hep-th/1410.0354.
52. Nima Arkani-Hamed, and J. Trnka, “Into the Amplituhedron”, (2015), *JHEP* **1506**, 182; hep-th/1312.7878.
53. Nima Arkani-Hamed, “Beyond the Standard Model Theory”, (2013), *Phys. Scr.* **T158**, 014023.
54. Nima Arkani-Hamed, and J. Trnka, “The Amplituhedron”, (2013), *JHEP* **1410**, 030; hep-th/1312.2007.
55. Nima Arkani-Hamed *et al.*, “Working Group Report: Quark Flavor Physics”, (2013), Conference Proceedings: C13-07-29.l2; hep-ex/1311.1076.
56. Nima Arkani-Hamed, A. Gupta, D. E. Kaplan, N. Weiner, and T. Zorawski, “Simply Unnatural Supersymmetry”, (2012), hep-ph/1212.6971.
57. Nima Arkani-Hamed, J. L. Bourjaily, F. Cachazo, A.B. Goncharov, A. Postnikov, and J. Trnka, “Grassmannian Geometry of Scattering Amplitudes”, (2016), *Cambridge Univ. Press*, Online ISBN: 9781316091548; hep-th/1212.5605.
58. Nima Arkani-Hamed, K. Blum, R.T. D'Agnolo and J.J. Fan, “2:1 for Naturalness at the LHC?”, *JHEP* **1301**; 149 (2013), hep-ph/1207-4482.
59. Nima Arkani-Hamed, *et al*, “Fundamental Physics at the Intensity Frontier”, (2012), Conference: C11-11-30.2, DOI: 10.2172/1042577; hep-ex/1205.2671.
60. Nima Arkani-Hamed, *et al*, “Simplified Models for LHC New Physics Searches”, *J. Phys.* **G39**; 105005 (2012), hep-ph/1105.2838.
61. Nima Arkani-Hamed, J. Bourjaily, F. Cachazo, A. Hodges and J. Trnka, “A Note on Polytopes for Scattering Amplitudes”, *JHEP* **1204**; 081 (2012), hep-th/1012.6030.
62. Nima Arkani-Hamed, J. Bourjaily, F. Cachazo and J. Trnka, “Local Integrals for Planar Scattering Amplitudes”, *JHEP* **1206**, 125 (2012), hep-th/1012.6032.
63. Nima Arkani-Hamed, J. Bourjaily, F. Cachazo, S. Caron-Huot and J. Trnka, “The All-Loop Integrand for Scattering Amplitudes in Planar  $N=4$  SYM”, *JHEP* **1101**, 041 (2011); hep-th/1008.2958.
64. Nima Arkani-Hamed, F. Cachazo, and C. Cheung, “The Grassmannian Origin Of Dual Superconformal Invariance”, *JHEP* **1003**;036 (2010), hep-th/0909.0483.
65. Nima Arkani-Hamed, F. Cachazo, C. Cheung and J. Kaplan, “A Duality for the S Matrix”, *JHEP* **1003**;020 (2010), hep-th/0907.5418.
66. Nima Arkani-Hamed, J. Bourjaily, F. Cachazo and J. Trnka, “Local Spacetime Physics from the Grassmannian”, *JHEP* **1101**; 108 (2011), hep-th/0912.3249.
67. Nima Arkani-Hamed, J. Bourjaily, F. Cachazo and J. Trnka, “Unification of Residues and Grassmannian Dualities”, *JHEP* **1101**; 049 (2011), hep-th/0912.4912.
68. Nima Arkani-Hamed, F. Cachazo, C. Cheung and J. Kaplan, “The S-Matrix in Twistor Space”, *JHEP* **1003**;110 (2010). hep-th/0903.2110.

69. Nima Arkani-Hamed, D.P. Finkbeiner, T. Slatyer and N. Weiner, “A Theory of Dark Matter” *Phys.Rev.D***79**:015014, (2009). hep-ph/0810.0713
70. Nima Arkani-Hamed and N. Weiner, “LHC Signals for a SuperUnified Theory of Dark Matter” *JHEP* **0812**;104 (2008), doi: 10.1088/1126-6708/2008/12/104.
71. Nima Arkani-Hamed, F. Cachazo and J. Kaplan, “What is the Simplest Quantum Field Theory?” *JHEP* **1009**;016, (2010). hep-th/0808.1446.
72. Nima Arkani-Hamed and J. Kaplan, “On Tree Amplitudes in Gauge Theory and Gravity” *JHEP* **0801**;076, (2008), doi: 10.1088/1126-6708/2008/04/076. hep-th/0801.2385.
73. Nima Arkani-Hamed, A. Gupta, D.E. Kaplan, N. Weiner, and T. Zorawski, “Simply Unnatural Supersymmetry,” (2012) hep-ph/1212.6971.
74. Nima Arkani-Hamed, J.L. Bourjaily, F. Cachazo, A.B. Goncharov, A. Postnikov, and J. Trnka, “Grassmannian Geometry of Scattering Amplitudes,” (2016), Cambridge Univ. Press, Online ISBN: 9781316091548, DOI: 10.1017/CBO9781316091548; hep-th/1212.5605.
75. Nima Arkani-Hamed, S. Dubovsky, L. Senatore, and G. Villadoro, “(No) Eternal Inflation and Precision Higgs Physics,” *JHEP* **03**;075 (2008), doi: 10.1088/1126-6708/2008/03/075. hep-th/0801.2399.
76. Nima Arkani-Hamed, J. Orgera and J. Polchinski, “Euclidean Wormholes in String Theory,” *JHEP* **0712**;018 (2007) hep-th/0705.2768.
77. Nima Arkani-Hamed, S. Dubovsky, A. Nicolis, E. Trincherini and G. Villadoro, “A Measure of deSitter entropy and eternal inflation”, *JHEP* **0705**;055, (2007) hep-ph/0704:1814.
78. Nima Arkani-Hamed, S. Dubovsky, A. Nicolis and G. Villadoro, “Quantum Horizons of the Standard Model Landscape,” *JHEP* **0706**; 078, (2007) hep-th/0703067.
79. Nima Arkani-Hamed, B. Knuteson, S. Mrenna, P. Schuster, J. Thaler, N. Toro and L.-T. Wang, “MAMOSET: The Path from LHC Data to the New Standard Model via On-Shell Effective Theories,” (2007) hep-ph/0703088.
80. Adams, Nima Arkani-Hamed, S. Dubovsky, A. Nicolis and R. Rattazzi, “Causality, analyticity and an IR obstruction to UV completion,” *JHEP* **0610**, 014 (2006).
81. Nima Arkani-Hamed, A. Delgado and G.F. Giudice, “The Well-tempered neutralino,” *Nucl. Phys. B* **741**; 108-130 (2006), hep-ph/0601041.
82. Nima Arkani-Hamed, L. Motl, A. Nicolis and C. Vafa, “The String landscape, black holes and gravity as the weakest force,” *JHEP* **0706**, 060 (2007), hep-th/0601001.
83. Nima Arkani-Hamed, G.L. Kane, J. Thaler and L-T. Wang, “Supersymmetry and the LHC inverse problem,” *JHEP* **0608**;070 (2006). hep-ph/0512190.
84. Nima Arkani-Hamed, H-C. Cheng, M.A. Luty, S. Mukohyama and T. Wiseman, “Dynamics of gravity in a Higgs phase,” *JHEP* **0701**; 036 (2007). hep-ph/0507120.
85. Nima Arkani-Hamed, S. Dimopoulos and S. Kachru, “Predictive landscapes and new physics at a TeV,” (2005) hep-th/0501082.

86. P. Creminelli, H. Georgi, and Nima Arkani-Hamed, “A larger than naive cut-off in a simple model,” In Shifman, M. (ed.) et al.: “From fields to strings,” **Vol. 3**, 2095-2107, (2005).
87. Nima Arkani-Hamed, S. Dimopoulos, G.F. Giudice and A. Romanino, “Aspects of split supersymmetry,” *Nucl. Phys.* **B709**:3-46 (2005). hep-ph/0409232.
88. Nima Arkani-Hamed, H-C Cheng, M.A. Luty and J. Thaler, “Universal dynamics of spontaneous Lorentz violation and a new spin-dependent inverse-square law force,” *JHEP* **0507**:029 (2005). hep-ph/0407034.
89. Nima Arkani-Hamed and S. Dimopoulos, “Supersymmetric unification without low energy supersymmetry and signatures for fine-tuning at the LHC,” *JHEP* **0506**: 073 (2005).
90. Nima Arkani-Hamed, P. Creminelli, S. Mukohyama and M. Zaldarriaga, “Ghost inflation,” *JCAP* **0404:001** (2004). hep-th/0312100.
91. Nima Arkani-Hamed, H-C. Cheng, M.A. Luty and S. Mukohyama, “Ghost condensation and a consistent infrared modification of gravity,” *JHEP* **0405:074** (2004). hep-th/0312099.
92. Nima Arkani-Hamed and M. D. Schwartz, “Discrete gravitational dimensions,” HUTP-03-A015, Feb 2003. *Phys. Rev. D* **69**:104001 (2004). hep-th/0302110.
93. Nima Arkani-Hamed, H-C. Cheng, P. Creminelli and L. Randall, “Pseudonatural inflation,” *JCAP* **0307**:003 (2003). hep-th/0302034.
94. Nima Arkani-Hamed, H-C. Cheng, P. Creminelli and L. Randall, “Extra natural inflation,” *Phys. Rev. Lett.* **90**:221302 (2003). hep-th/0301218.
95. Nima Arkani-Hamed, H. Georgi and M.D. Schwartz, “Effective field theory for massive gravitons and gravity in theory space,” *Annals Phys.* **305**:96-118 (2003). hep-th/0210184.
96. Nima Arkani-Hamed, S. Dimopoulos, G. Dvali and G. Gabadadze, “Nonlocal modification of gravity and the cosmological constant problem,” (2002). hep-th/0209227.
97. Nima Arkani-Hamed, A.G. Cohen, E. Katz and A.E. Nelson, “The Littlest Higgs,” *JHEP* **0207**:034 (2002). hep-ph/0206021.
98. Nima Arkani-Hamed, A.G. Cohen, E. Katz, A.E. Nelson, T. Gregoire and J. G. Wacker, “The Minimal moose for a little Higgs,” *JHEP* **0208**:021 (2002). hep-ph/0206020.
99. Nima Arkani-Hamed, S. Dimopoulos and G. Dvali, “Large extra dimensions: A new arena for particle physics,” 2002. *Phys. Today* **55N2**:35-40 (2002).
100. Nima Arkani-Hamed, A.G. Cohen, T. Gregoire and J.G. Wacker, “Phenomenology of electroweak symmetry breaking from theory space,” *JHEP* **0208**:020 (2002). hep-ph/0202089.
101. Nima Arkani-Hamed, A.G. Cohen, D.B. Kaplan, A. Karch and L. Motl, “Deconstructing (2,0) and little string theories,” *JHEP* **0301**:083 (2003). hep-th/0110146.
102. Nima Arkani-Hamed, A.G. Cohen and H. Georgi, “Twisted supersymmetry and the topology of theory space,” *JHEP* **0207**:020 (2002). hep-th/0109082.
103. Nima Arkani-Hamed, A.G. Cohen and H. Georgi, “Accelerated unification,” (2001), hep-th/0108089.

104. Nima Arkani-Hamed, A.G. Cohen and H. Georgi, “Electroweak symmetry breaking from dimensional deconstruction,” *Phys.Lett.B* **513**; 232-240 (2001). hep-ph/0105239.
105. Nima Arkani-Hamed, A.G. Cohen and H. Georgi, “(De)constructing dimensions,” *Phys. Rev. Lett.* **86**:4757-4761 (2001). hep-th/0104005.
106. Nima Arkani-Hamed, A.G. Cohen and H. Georgi, “Anomalies on orbifolds,” *Phys. Lett. B* **516**; 395-402 (2001). hep-th/0103135.
107. Nima Arkani-Hamed, L.J. Hall, Y. Nomura, D. R. Smith and N. Weiner, “Finite radiative electroweak symmetry breaking from the bulk,” *Nucl. Phys. B* **605**; 81-115 (2001). hep-ph/0102090.
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110. Nima Arkani-Hamed, D.E. Kaplan, H. Murayama and Y. Nomura, “Viable ultraviolet insensitive supersymmetry breaking.” *JHEP* **0102**;041 (2001). hep-ph/0012103.
111. Nima Arkani-Hamed, S. Dimopoulos and G.R. Dvali, “The universe's unseen dimensions,” Scientific American, August 2000.
112. Nima Arkani-Hamed, L.J. Hall, H. Murayama, D.R. Smith and N. Weiner, “Neutrino masses at  $v^{**}(3/2)$ ,” hep-ph/0007001.
113. Nima Arkani-Hamed, L.J. Hall, H. Murayama, D.R. Smith and N. Weiner, “Small neutrino masses from supersymmetry breaking,” *Phys. Rev. D* **64**;115011 (2001). hep-ph/0006312.
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116. Nima Arkani-Hamed et al, “A Small cosmological constant from a large extra dimension,” *Phys. Lett. B* **480**; 193-199 (2000). hep-th/0001197.
117. Nima Arkani-Hamed et al, “Solving the hierarchy problem with exponentially large dimensions,” *Phys. Rev. D* **62**;105002 (2000). hep-ph/9912453.
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