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Thesis - An $SP(4) \times U(1)$ Gauge Model of the
Weak and Electromagnetic Interactions
Thesis Advisors - Professors Benjamin W. Lee and Yoichiro Nambu

RESEARCH POSITIONS:

July 1990- present Full Professor, Theory Group
University of Pennsylvania, Philadelphia, PA

July 1985 - June 1990 Associate Professor, Theory Group
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January 1983 - June 1985 Assistant Professor, Theoretical Particle Physics
Rockefeller University, New York, NY

Sept. 1980 - Dec. 1982 Member, School of Natural Sciences
The Institute for Advanced Study
Princeton, New Jersey

September 1978 - June 1980 Research Associate, High Energy Physics
Brandeis University, Boston, Massachusetts

VISITING POSITIONS:

- July 1981 - September 1981 Scientific Associate, Theory Group, CERN
Geneva, Switzerland
- October 1988 - October 1990 Adjunct Professor, Theoretical Particle Physics
Rockefeller University, New York, NY
- October 1992 - October 1993 Scientific Associate, Theory Group, CERN
Geneva, Switzerland
- December 1994- January 1995 Scientific Associate, Theory Group, CERN
Geneva, Switzerland
- September, 1996- May, 1997 Member, School of Natural Sciences
The Institute for Advanced Study
Princeton, New Jersey
- September, 1997-August 2001 Visitor, School of Natural Sciences
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- September, 2008-August, 2009 Member, School of Natural Sciences
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AWARDS:

- US-Poland Maria Sklodowska Curie Research Award- 1995
- Senior Alexander von Humboldt Research Award- 1996
- Fellow American Physical Society- 2000
- Andrjewski Distinguished Lecturer, Humboldt University- 2002

MEDIA PRESENTATIONS:

The Ekpyrotic Universe and the Origin of the Hot Big Bang
Radio Times, WHHY Public Radio
One hour, aired on April 14, 2001

Parallel Universes
BBC Documentary (based on Heterotic M-Theory and the Ekpyrotic Universe)
Originally aired BBC two, United Kingdom, February 14, 2002

Parallel Universes
Discovery Channel Documentary (based on Heterotic M-Theory)
Originally aired Discovery Channel, 2003

NOVA: The Elegant Universe
PBS Documentary (includes Heterotic M-Theory and Ekpyrotic Cosmology)
Originally aired PBS, October 28, 2003

Parallel Universes
The Universe series on the History Channel (based on Heterotic M-Theory)
Originally aired History Channel, November 18, 2008.

PUBLICATIONS

Abbreviations:

J. Math. Phys.- Journal of Mathematical Physics
Phys. Rev.- Physical Review
Nuc. Phys.- Nuclear Physics
Phys. Lett.- Physics Letters
Phys. Rev. Lett.- Physical Review Letters
Prog. of Theor. Phys.- Progress of Theoretical Physics
Mod. Phys. Lett.- Modern Physics Letters
J. Mod. Phys.- Journal of Modern Physics
JHEP- Journal of High Energy Physics

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2. Little Groups, Discrete Symmetry and an $SP(4) \times U(1)$ Theory of Weak and Electromagnetic Interactions, Phys. Rev. **D18**, 4226-4245 (1978).
3. Effective Potential for Spontaneously Broken Gauge Theories and Gauge Hierarchies (with T. Hagiwara) Phys. Rev. **D20**, 1988-2005 (1979).
4. Effective Potential for Non-Abelian Gauge Theories and Spontaneous Symmetry Breaking, Phys. Rev. **D20**, 1446-1459 (1979).
5. Effect of Heavy Particles in Low Energy Light Particle Process (with L.H. Chan and T. Hagiwara), Phys. Rev. **D20**, 1982-1987 (1979).
6. Non-Zero Vacua in Non-Abelian Gauge Theory and Infrared Divergence, Phys. Rev. **D21**, 504-510 (1980).
7. A New Approach to Effective Field Theories (with H. Schnitzer), Phys. Rev. **D21**, 3369-3387 (1980).
8. Decoupling Theorems for Effective Field Theories (with H. Schnitzer), Phys. Rev. **D22**, 2518-2533 (1980).
9. The Decoupling Theorem and Minimal Subtraction (with H. Schnitzer), Phys. Lett. **B100**, 403-406 (1981).
10. Gauge Theories with Minimal Subtraction and the Decoupling Theorem (with H. Schnitzer), Nucl. Phys. **B179**, 381-416 (1981).
11. Low Energy and Threshold Calculations Using Effective Field Theory (with H. Schnitzer), Nucl. Phys. **B184**, 109-132 (1981).
12. Effective Field Theories and Higher Dimension Operators (with H. Schnitzer), Phys. Rev. **D24**, 1695-1698 (1981).
13. Axial Vector Ward Identities and Dimensional Regularization, Nucl. Phys. **B213**, 241-265 (1983).
14. Gauge Theory and Effective Lagrangians (with H. Schnitzer), Nucl. Phys. **B189**, 509-534 (1981).
15. Supersymmetric R-Gauge and Radiative Symmetry Breaking (with J. Wess), Phys. Rev. **D25**, 409-426 (1982).
16. A New Mechanism for Supersymmetry Breaking (with J. Wess), Phys. Lett. **B112**, 347-350 (1982).
17. Effective Lagrangians in the Background Field Gauge (with H. Schnitzer), Phys. Lett. **B110**, 139-142 (1982).
18. Supersymmetric Extension of the $SU(3) \times SU(2) \times U(1)$ Model (with C. Nappi), Phys. Lett. **B113**, 175-179 (1982).

19. The Effect of Supergravity on the Vacuum State of Grand Unified Theories (with H. Wess), Phys. Lett. **B119**, 105-110 (1982).
 20. Supergravity and the Inverted Gauge Hierarchy (with S. Raby), Phys. Lett. **B121**, 381-385 (1983).
 21. A Supersymmetric Preon Model of Particle Physics (with Y. J. Ng), Phys. Lett. **B125**, 147-150 (1983).
 22. The Geometrical Hierarchy Model and $N = 1$ Supergravity (with S. Raby), Phys. Lett. **B125**, 270-274 (1983).
 23. A Supersymmetric Confining Model for the Weak Interactions (with Y. J. Ng), Phys. Rev. **D29**, 138-149 (1983).
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 25. The Locally Supersymmetric Geometrical Hierarchy Model (with S. Raby), Phys. Lett. **B130**, 277-284 (1983).
 26. Supersymmetry and Inflation: A New Approach (with P. Steinhardt), Phys. Lett. **B133**, 161-168 (1983).
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31. Supersymmetric Inflation, Baryon Asymmetry and the Gravitino Problem (with P. Steinhardt), Phys. Lett. **B147**, 263-268 (1984).
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103. Higher Derivative Gravity in String Theory (with K. Foerger, S. Theisen and D. Waldram), Phys. Lett. **B388**, (1996) 512-520.
104. Vector-Tensor Multiplet in N=2 Superspace with Central Charge (with A. Hindawi and D. Waldram), Phys. Lett. **B392**, (1997) 85-92.
105. Cosmological Solutions of Type II String Theory (with A. Lukas and D. Waldram), Phys. Lett. **B393**, (1997) 65-71.
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75. The Background Field Method and the Structure of the Effective Action in $N = 2$ Super Yang-Mills Theory, Proceedings of the 31st International Symposium Ahrenshoop on the Theory of Elementary Particles, September 2-6, 1997, Buckow, Germany.
76. U-Duality and M-Theory Cosmology, Proceedings of the XXXIIIrd Rencontres de Moriond, Fundamental Parameters in Cosmology, Les Arcs, Savoie, France, January 17-24, 1998.
77. Low Energy Horava-Witten Theory in Five and Four Dimensions, Proceedings of PASCOS'98, Sixth International Symposium on Particles, Strings and Cosmology, Northeastern University, Boston, Mass., March 22-29, 1998.

78. Horava-Witten Theory in Five Dimensions, Proceedings of the IVth Warsaw Workshop on Physics from Planck Scale to Electroweak Scale, Kasimierz, Poland, May 25-29, 1998.
79. Lectures on Cosmology and Heterotic M-Theory in Five-Dimensions, Proceedings of the Advanced School on Cosmology and Particle Physics, June 22-28, 1998, Peniscola, Spain.
80. Low Energy Horava-Witten Theory in Five and Four Dimensions, Proceedings of the SUSY'98 Conference, July, 1998, Oxford, England.
81. Covariant Harmonic Supergravity for $N = 2$ Super Yang-Mills Theories (with J. Buchbinder and S. Kuzenko), hep-th/9810040, Proceedings of the International Seminar on "Supersymmetries and Quantum Symmetries", July 1997, Dubna, Russia.
82. Non-Perturbative Vacua in M-Theory, Proceedings of the 32st International Symposium Ahrenschoop on the Theory of Elementary Particles, September 1-5, 1998, Buckow, Germany, hep-th/9903144.
83. Lectures on Non-Perturbative Vacua, M-Theory and Particle Physics, Proceedings of the Lisbon School on Superstrings, December, 16-18, 1998, Lisbon, Portugal.
84. Lectures on Heterotic M-Theory, Bundles and Non-Perturbative Vacua, Proceedings of the Third Winter School on Duality in Fields and Strings, Asian Pacific Center for Particle Physics, Cheju Island, Korea, February 1-4, 1999.
85. Non-Perturbative Vacua in M-Theory, Proceedings of the PLANCK'99 Conference, Bonn, Germany, April 19-23, 1999.
86. Heterotic M-Theory and Particle Physics, Proceedings of the SUSY'99 Conference, Fermi National Accelerator Laboratory, Batavia, Illinois, June 14-19, 1999.
87. Cosmology in Heterotic M-Theory, Proceedings of the Workshop on Current Issues in String Cosmology, Institut des Hautes Etudes Scientifiques, Bures sur Yvette, France, June 21-25, 1999.
88. Elliptically Fibered Calabi-Yau Three-Folds and M-Theory Phenomenology, Proceedings of the Workshop on D-Branes, Vector Bundles and Bound States, Institut des Hautes Etudes Scientifiques, Bures sur Yvette, France, June 28-July 9, 1999.
89. Non-Perturbative Vacua in M-Theory, Proceedings of the STRINGS'99 Conference, Potsdam, Germany, July 19-24, 1999.
90. Heterotic M-Theory and Cosmology, Proceedings of the EC Summer School and Workshop on Connecting Fundamental Physics and Cosmology, Isaac Newton Institute, Cambridge, England, August 19-27, 1999.

91. New Non-Perturbative Physics in Heterotic M-Theory, Proceedings of the Conference on Supersymmetric Gauge Dynamics and String Theory, Institute for Theoretical Physics, Santa Barbara, California, November 17-20, 1999.
92. The Cosmology of Heterotic M-Theory, Proceedings of the Aspen Winter Workshop On Astrophysics: Way Beyond The Standard Models Of Particle Physics And Cosmology, Aspen, Colorado, Jan 30 - Feb 5, 2000.
93. Small Instanton Transitions in Heterotic M-Theory, Proceedings of the Geometry, Duality and Hodge Theory Conference, University of California at Irvine, Irvine, California, March 17-19, 2000.
94. Heterotic M-Theory: A Brane Universe, Proceedings of the International Conference on Quantization, Gauge Theory and Strings, Lebedev Institute, Moscow, Russia, June 5-10, 2000.
95. Brane World Particle Physics from Horava-Witten Theory (with D. Waldram), Proceedings of the SUSY2K Conference, CERN, Geneva, Switzerland, June 26-July 1, 2000.
96. Non-Perturbative Phase Transitions in Heterotic M-Theory, Proceedings of the SUSY2K Conference, CERN, Geneva, June 26-July 1, 2000.
97. Non-Perturbative Physics on Brane Worlds, Proceedings of the Beyond 4D Conference, ICTP, Trieste, Italy, July 3-July 6, 2000.
98. Non-Perturbative Physics in the Brane World, Proceedings of STRINGS 2000, Ann Arbor, Michigan, July 10-15, 2000.
99. Heterotic M-Theory and Brane Cosmology, Proceedings of the Summer Workshop on String Cosmology, Vancouver, British Columbia, Canada, July 24-August 4, 2000.
100. Lectures on Heterotic M-Theory and Vector Bundles, Proceedings of the Workshop on Superstrings, Supergravity and M-Theory, Emile Borel Center of the Institut Henri Poincare, Paris, France, January, 2001.
101. Non-Perturbative Phase Transitions and Cosmology, Proceedings of the CIAR Cosmology and Gravitation Programme: 2001 Meeting, Banff, Alberta, Canada, March, 2001.
102. The Ekpyrotic Universe: Colliding Branes and the Origin of the Big Bang (with P. Steinhardt, J. Khoury and N. Turok), Meeting of the Space Telescope Science Institute, Johns, Hopkins University, Baltimore, Maryland, May, 2001.
103. Lectures on Heterotic M-Theory, Proceedings of the TASI 2001 School on Strings, Branes and Extra Dimensions, Boulder, Colorado, June 3-29, 2001, hep-th/0201032.
104. Lectures on Holomorphic Vector Bundles and Superpotentials, The Duality Workshop-A Math/Physics Collaboration, The Institute for Theoretical Physics, Santa Barbara, California, June 18-July 14, 2001.

105. Branes, Brane Collisions and Cosmology, Proceeding of the M-Theory Cosmology Conference, Cambridge, England, August 21-25, 2001.
106. M-Theory, a “Theory of Everything” Confronts the Real World, Public Lecture, M-Theory Cosmology Conference, Cambridge, England, August 21-25, 2001.
107. Brane Worlds and Cosmology, DESY Theory Workshop 2001, Gravity and Particle Physics, DESY, Hamburg, Germany, October 9-12, 2001.
108. Superpotentials for Vector Bundle Moduli, Michigan Center for Theoretical Physics, Mathematics and Physics of Extra Dimensions Workshop, Ann Arbor, Michigan April 8-May 3, 2002.
109. Vector Bundle Moduli Superpotentials, Burt A. Ovrut, Proceedings of the KIAS Workshop on Strings and Branes, KIAS, Seoul, Korea, May 20-31, 2002.
110. The Superpotential of Instanton Moduli, Burt A. Ovrut, Proceedings of the Third International Sakharov Conference on Physics, Lebedev Institute, Moscow, Russia, June 24-29, 2002.
111. Superpotentials for Vector Bundle Moduli, Burt A. Ovrut, Proceedings of the 1st International Conference on String Phenomenology, Oxford University, Oxford, Great Britain, July 6-11, 2002.
112. M-Theory and Ekpyrotic Cosmology, Burt A. Ovrut, Proceedings of “The New Cosmology Confronts Observation” Conference, KITP, Santa Barbara, California, August 19-23, 2002.
113. The Dynamics of Ekpyrotic Brane Collisions, Burt A. Ovrut, Proceedings of the Blaise Pascal Conference on String/Brane Cosmology, IHES, Bures-sur-Yvette, France, September 23-27, 2002.
114. Brane Worlds and their Moduli, Burt A. Ovrut, Proceedings of the Yukawa Memorial Conference, Nishinomiya, Japan, November 10-16, 2002.
115. Standard-like Models and Cosmology in Heterotic String Theory, Burt A. Ovrut, Proceedings of the Planck 03 Conference, Madrid, Spain, May 26-31, 2003.
116. Standard Model Bundles on Calabi-Yau Threefolds, Burt A. Ovrut, Proceedings of the Conference on Symplectic Geometry and String Theory, IPAM, UCLA, Los Angeles, California, June 2-6, 2003.
117. New Heterotic Vacua and Instanton Moduli, Burt A. Ovrut, Proceedings of STRINGS 2003, Kyoto, Japan, July 6-11, 2003.
118. Fluctuation Spectra in Big Crunch/Big Bang String Vacua, Burt A. Ovrut, Proceedings of the Workshop on Cosmological Perturbations on the Brane, Cambridge, UK, July 21-August 1, 2003.

119. The Cosmology of Generalized Milne Orbifolds, Burt A. Ovrut (with Ben Craps), Proceedings of the Workshop on Cosmological Perturbations on the Brane, Cambridge, UK, July 21-August 1, 2003.
120. Cosmological Singularities in String Theory, Burt A. Ovrut (with Ben Craps), Proceedings of the Conference on String Cosmology, KITP, Santa Barbara, October 20-24, 2003.
121. Scalar Fluctuations in a Big Crunch/Big Bang String Cosmology, Burt A. Ovrut, Proceedings of the Second Workshop on String Cosmology, Columbia University, December 19, 2003.
122. Big Crunch/Big Bang String Cosmology, Burt A. Ovrut, Proceedings of the Coral Gables Conferences 2003, Fort Lauderdale, Florida, December 17-21, 2003.
123. Scalar Fluctuations in Big Crunch/Big Bang String Cosmology, Proceedings of the Strings and Cosmology Conference, College Station, Texas, March 14-17, 2004.
124. Fluctuations in Big Crunch/Big Bang Cosmologies, Proceedings of the Workshop on New Horizons in String Cosmology, BIRS, Banff, Alberta, June 12-17, 2004.
125. Physical Vacua in Heterotic Theory, lectures presented at Prospects in Theoretical Physics 2004, the Intitute for Advanced Study, Princeton, NJ, July 19-30, 2004.
126. The Spectra of Heterotic Vacua, Proceedings of Strings Phenomenology 2004, University of Michigan, Ann Arbor, Michigan, August 1-6, 2004.
127. The Spectra of Heterotic Vacua, Proceedings of the 37th International Symposium on the Theory of Elementary Particles, Berlin-Schmoeckwitz, Germany, August 23-27, 2004.
128. Standard Model Vacua in Heterotic String Theory, Proceedings of the String Vacuum Workshop, Max Planck Institute, Berlin, Germany, November 22-24, 2004.
129. A Heterotic Standard Model, Proceedings of the Julius Wess Symposium, Max Planck Institute, Berlin, Germany, January 10-11, 2005.
130. Vector Bundles for a Heterotic Standard Model, Proceedings of the Workshop on $N=1$ Compactifications, Fields Institute, University of Toronto, Toronto, Canada, March 28-April 1, 2005.
131. A Heterotic Standard Model, Proceedings of the Workshop on String Phenomenology, Perimeter Institute, Waterloo, Canada, March 28-April 1, 2005.
132. A Heterotic Standard Model, Proceedings of PASCOS 2005, Gyeongju, Korea, May 30-June 4, 2005.

133. A Heterotic Standard Model, Proceedings of the Conference on String Phenomenology, Ludwig Maximilian University, Munich, Germany, June 13-18, 2005
134. A Heterotic Standard Model- A Venue for Early Universe Cosmology, Proceedings of the Workshop on Cosmological Frontiers in Fundamental Physics, Perimeter Institute, Waterloo, Canada, October 24-28, 2005.
135. A Heterotic Standard Model, Proceedings of the Workshop on Strings and the Real World, Ohio State University, Columbus, Ohio, November 7-9, 2005.
136. The Exact MSSM from String Theory, Proceedings of the Frontiers in String Theory Workshop, Banff International Research Station, Banff, Alberta, Canada, February 11-16, 2006.
137. A Heterotic Standard Model and the Cosmological Constant, Proceedings of Planck '06, From the Planck Scale to the Electroweak Scale, Paris, France, May 29-June 2, 2006.
138. A Heterotic Standard Model, the Cosmological Constant and Cosmology, Proceedings of the Cosmology Workshop, Perimeter Institute, Waterloo, Canada, June 6-7, 2006.
139. A Heterotic Standard Model and the Cosmological Constant, 38th International Symposium Ahrenshoop on the Theory of Elementary Particles, Berlin, Germany, August 28-September 1, 2006.
140. Dynamical SUSY Breaking in Heterotic M-Theory (with Volker Braun), 38th International Symposium Ahrenshoop on the Theory of Elementary Particles, Berlin, Germany, August 28-September 1, 2006.
141. A Heterotic Standard Model, SUSY Breaking and the Cosmological Constant, String Phenomenology 2006, KITP, Santa Barbara, August 28-September 1, 2006.
142. A Heterotic Standard Model, the Cosmological Constant and Cosmology, XXVII Encontro Nacional de Fisica de Particulas e Campos, Aguas de Lindoia, Sao Paulo, Brazil, September 24-28, 2006.
143. A Heterotic Standard Model and the Cosmological Constant, Joint Meeting of the Pacific Region Particle Physics Community (APS-DPF2006 + JPS2006), Honolulu, Hawaii, October 29-November 3, 2006.
144. A Heterotic Standard Model, Moduli Stability and the Cosmological Constant, From Strings to the LHC, Tata Institute, International Center, Dona Paula, Goa, India, January 2-10, 2007.
145. New Ekpyrotic Cosmology, Workshop on the Early Universe and the Landscape, McGill University, Montreal, Canada, May 10-13, 2007.
146. Topics in Heterotic Standard Models, String Phenomenology 2007, INFN, Frascati, Italy, June 4-8, 2007.

147. New Ekpyrotic Cosmology, Workshop on “Cosmology and Strings”, ICTP, Trieste, Italy, July 9-13, 2007.
148. Heterotic Instanton Superpotentials, Workshop on Recent Developments in String Effective Actions and D-Instantons, MPI, Munich, Germany, November 14-16, 2007.
149. New Ekpyrotic Cosmology, Workshops on Novel Theories of the Early Universe/Origins and Observations of Primordial Non-Gaussianity, Perimeter Institute, Waterloo, Canada, March 6-10, 2008.
150. Heterotic Instanton Superpotentials, Conference on Gravity, Supersymmetry and Branes, Kelly Stelle Symposium, Imperial College, London, UK, April 24-25, 2008.
151. New Ekpyrotic Cosmology and Non-Gaussianity, Workshop on Cosmological Frontiers in Fundamental Physics, APC, Paris, May 19-23, 2008.
152. Ricci-Flat Metrics and Scalar Laplacians on Calabi-Yau Threefolds, TH Institute on String Phenomenology, CERN, Geneva, July 21-August 15, 2008.
153. Ricci-Flat Metrics and Scalar Laplacians on Calabi-Yau Threefolds, Memorial Conference in Honor of Julius Wess, LMU and MPI, Munich, November 6-7, 2008.
154. New Ekpyrotic Cosmology, Big Bang and Beyond Workshop, Princeton Center for Theoretical Sciences, Princeton, November 10, 2008.
155. New Ekpyrotic Cosmology in Heterotic M-Theory, GUTs in Strings Workshop, DESY, Hamburg, Germany, February 3-5, 2009.
156. The Heterotic String: From Super-Geometry to the LHC, 4th International Sakharov Conference on Physics, Lebedev Institute, Moscow, Russia, May 18-23, 2009.
157. The B-L/Electroweak Hierarchy in Heterotic Theory, String Phenomenology '09, University of Warsaw, Warsaw, Poland, June 15-19, 2009.
158. U(1) Symmetry in Smooth Heterotic Vacua, GUTS and Strings 2010, MPI, Munich, Germany, February 10-12, 2010.
159. Prospects of Heterotic String Theory, Strings at the LHC and in the Early Universe Workshop, KITP, Santa Barbara, March 8-13, 2010.
160. The Edge of Supersymmetry: Slope-Stability Walls in Heterotic String Theory, AMS Sectional Meeting, University of Kentucky, Lexington, Kentucky, March 27-28, 2010.
161. Cosmic Strings in Heterotic MSSM Vacua, Penn/NYU Particle/Cosmology Workshop, University of Pennsylvania, Philadelphia, Pennsylvania, March 30, 2010.

162. Heterotic Particle Physics at LHC Scales, String Phenomenology 2010, Paris, France, July 5-9, 2010.
163. The Particle Physics and Cosmology of SU(4) Heterotic Vacua, String Vacuum Project Fall Meeting, Columbus, Ohio, November 5-7, 2010.
164. Geometric Moduli Stabilization in Heterotic Calabi-Yau Vacua, New Geometric and Non-Geometric Vacua in String Theory Meeting, Imperial College, London, UK, February 11-13, 2011.
165. Supersymmetric Galileon Theory, Workshop on Galileons, University of Pennsylvania, Philadelphia, PA, April 1-2, 2011.
166. Stabilizing Heterotic Complex Structure Moduli, The String Vacuum Project, Spring 2011 Meeting, University of Pennsylvania, Philadelphia, PA, May 23-25, 2011.
167. Supersymmetric Galileons, Conference on Supersymmetries and Quantum Symmetries, Dubna, Russia, July 18-23, 2011.
168. Bundle Transitions and Stabilizing Moduli in Heterotic Vacua, String Phenomenology 2011, Madison, Wisconsin, August 22-26, 2011.
169. Bundle Transitions and Stabilizing Moduli in Heterotic Vacua, String Vac 2011, Busan, Korea, September 5-7, 2011.
170. Recent Developments in Heterotic Model Building, String Phenomenology and Cosmology, KITPC, Beijing, China, September 8-16, 2011.
171. The B-L MSSM in Heterotic String Theory, Baryon and Lepton Number Violation 2011, Gatlinburg, Tennessee, September 22-24, 2011.
172. The Worldvolume Action of Kink Solitons, Spring 2012 Meeting of the International Research Program on The Particle Physics and Cosmology of Supersymmetry and String Theory, University of Pennsylvania, March, 16-18, 2012
173. Phenomenological Heterotic Theory: Heterotic Standard Models, the Renormalization Group and All That, String Phenomenology Conference, String Vacuum Project, Stony Brook, April 22-28, 2012.
174. Phenomenological Heterotic Theory: Standard Models, the Renormalization Group and All That, Planck 2012, Warsaw, Poland, May 28-June 1, 2012.
175. Heterotic Standard Models, the Renormalization Group and all That, Ginzburg Conference on Physics, Lebedev Institute, Moscow, May 28-June 2, 2012.
176. Heterotic Standard Models, the Renormalization Group and All That, String Phenomenology 2012, The Newton Center, Cambridge, UK, June 25-29, 2012.
177. Phenomenological Heterotic Theory: Standard Models, the Renormalization Group and All That, String Phenomenology 2012, CERN Theory Institute, Geneva, July 2-20, 2012.

178. Supersymmetric Hidden Sectors for Heterotic Standard Models, The Particle Physics and Cosmology of Supersymmetry and String Theory, Spring 2013 Meeting, Arnold Sommerfeld Institute, Munich, March 21-23, 2013.
179. The Ghost Condensate in $N=1$ Supergravity, BUDS, 2013, National Laboratories of Frascati, INFN, Frascati, Italy, March 25-28, 2013.
180. Scalars with Higher Derivatives in Supergravity and Cosmology, BUDS, 2013, National Laboratories of Frascati, INFN, Frascati, Italy, March 25-28, 2013.
181. Supersymmetric Hidden Sectors for Heterotic Standard Models, StringPheno 2013, DESY, Hamburg, July 15-19, 2013.
182. Supersymmetric Hidden Sectors, Supersymmetries and Quantum Symmetries SQS'2013, JINR, Dubna, Russia, July 29-August 3, 2013
183. Supersymmetric Hidden Sectors for Heterotic Standard Models, SIAM Conference on Applied Algebraic Geometry, Colorado State University, Fort Collins, Colorado, August 1-4, 2013.
184. Observing the Neutrino Hierarchy through the Decay of Squark LSPs (with Sogee Spinner), The Particle Physics and Cosmology of Supersymmetry and String Theory, Permanent Mission of Germany to the United Nations, New York, NY, March 20-22, 2014.
185. R-Parity Violation in Supersymmetric Models, Searching For Simplicity, PCTS, Princeton, NJ, May 12-15, 2014.
186. R-Parity Violating Supersymmetry, LSP Decays and the Neutrino Mass Hierarchy, String Phenomenology 2014, ICTP, Trieste, Italy, July 7-11, 2014.
187. R-Parity Violating Supersymmetry, LSP Decays and the Neutrino Mass Hierarchy, QFTG'14, Tomsk State Pedagogical University, Tomsk, Russia, July 28-August 3, 2014.
188. R-Parity Violating Supersymmetry, LSP Decays and the Neutrino Mass Hierarchy, The String Universe COST Conference, Mainz, Germany, September 22-26, 2014.
189. Cosmological Perturbations through a Ghost Condensate/Galileon Bounce, Open Questions in String Cosmology and Inflation, PCTS, Princeton, October 24-25, 2014.
190. R-Parity Violating Supersymmetry, LSP Decays and the Neutrino Mass Hierarchy, String/M-Theory Compactifications and Moduli Stabilization Workshop, University of Michigan, Ann Arbor, Michigan, March 4-7, 2015.
191. The Minimal SUSY B-L Model: From the Unification Scale to the LHC, The Particle Physics and Cosmology of Supersymmetry and String Theory, DESY, Hamburg, Germany, March 30-April 1, 2015.

192. The Decoupling Theorem and the Supersymmetric B-L Model: From the Unification Scale to the LHC, Howard Schnitzer Symposium, Brandeis University, April 12-13, 2015.
193. The Minimal SUSY B-L Model: From the Unification Scale to the LHC, Phenomenology Symposium Pheno 2015, University of Pittsburgh, May 4-6, 2015.
194. The Minimal SUSY B-L Theory: From Unification to the LHC, Conference on 60 Years of Yang-Mills Gauge Field Theories, IAS at Nanyang Technological University, Singapore, May 25-28, 2015.
195. Cosmological Perturbations Through a Ghost Condensate/Galileon Bounce, String Theory and Cosmology, Hong Kong University for Science and Technology, Hong Kong, May 31-June 5, 2015.
196. Cosmological Perturbations Through a Ghost Condensate Bounce, Supersymmetries and Quantum Symmetries, SQS “2015”, Dubna, Russia, August 3-8, 2015.
197. Supersymmetry, String Theory and the Real World, Nambu’s Century: International Symposium on Yoichiro Nambu’s Physics, Osaka, Japan, November 16, 2015.
198. The Minimal SUSY B-L Model: From the Unification Scale to the LHC, Basic Advanced Study Institute Conference 2016, Stella Maris, Long Island, Bahamas, January 7-12, 2016.
199. Supersymmetry, String Theory and the Minimal SUSY B-L Model, Nambu Memorial Symposium, University of Chicago, March 11-13, 2016.
200. Non-Singular Bouncing Cosmology and Cosmological Perturbations, Hot topics in Modern Cosmology, Spontaneous Workshop X, Institut d’Etudes Scientifiques, Cargese, Corsica, May 9-14, 2016.
201. Cosmological Perturbations and Strong Coupling in a Non-Singular Bouncing Cosmology, Rethinking Cosmology, Princeton Center for Theoretical Sciences, Princeton, New Jersey, May 16-18, 2016.
202. The Minimal SUSY B-L Model: Simultaneous Wilson Lines, String Thresholds and Cosmology, String Pheno 2016, Ioannina, Greece, June 20-24, 2016.
203. The Minimal SUSY B-L Model: Simultaneous Wilson Lines, String Thresholds and Cosmology, Memorial Conference for Jacob Beckenstein, Mitzpe Ramon, Israel, July 3-8, 2016.
204. A New Supersymmetric Theory of Inflation, International Conference on New Ideas in Physics, Kolymbari, Crete, Greece, July 6-14, 2016.
205. The Minimal SUSY B-L Model: Sequential/Simultaneous Wilson Lines and String Thresholds, Simplicity II Conference, Fermi National Accelerator Laboratory, Batavia, Illinois, September 6-9, 2016.

206. The Minimal SUSY B-L Model: Simultaneous Wilson Lines, String Thresholds and Cosmology, Conference on the Geometry of String Compactifications, “DieterFest”, Ludwig Maximilian University, Munich, Germany, October 14-15, 2016.
207. Supergravitational Galileons and Bouncing Ekpyrotic Cosmology, Conference on Connections between Cosmology, Strong Gravity and Quantum Theory, Max Planck Society, Ringberg Castle, Tangersee, Bavaria, Germany, February 15-18, 2017.
208. Theory of a Probe 3-Brane in Heterotic M-Theory (with Rehan Deen), Conference on Bangs, Bounces, Black Holes and Bubbles: Where General Relativity Meets Cosmology, Princeton Center for Theoretical Sciences, Princeton University, May 12, 2017.
209. Superpotentials in Heterotic String Theory and Discrete Torsion, Ginzburg Centennial Conference on Physics, Lebedev Physical Institute, Moscow, Russia, May 29-June 3, 2017.
210. Non-Vanishing Superpotentials in Heterotic String Theory and Discrete Torsion, StringPheno 2017, Virginia Tech, Blacksburg, Virginia, July 3-7, 2017.
211. Heterotic Superstring Theory: Its Mathematics, Particle Physics and Cosmology, Nankai Symposium on Physics, Geometry and Number Theory, Chern Institute, Nankai University, Tianjin, China, July 31-August 5, 2017.
212. Heterotic Instanton Superpotentials from Complete Intersection Calabi-Yau Manifolds, Strings, Geometry and Black Holes Conference, Kings College, London, April 9-13, 2018.
213. Non-Perturbative Bundle Moduli Superpotentials in Heterotic String Theory, String Phenomenology 2018, University of Warsaw, Warsaw, Poland, July 2-6, 2018.
214. Non-Perturbative Superpotentials in Heterotic String Theory, New Frontiers in Physics, ICNFP2018, Kolymbari, Crete, Greece, July 4-12, 2018.
215. Non-Perturbative Bundle Moduli Superpotentials in Heterotic String Theory, Quantum Field Theory and Gravity 2018, Tomsk State Pedagogical University, Tomsk, Russia, July 29-August 4, 2018.
216. Supersymmetric Higgs-Sneutrino Inflation and Reheating, PACIFIC.9, Gump Research Station, Moorea, French Polynesia, August 31-August 6, 2018.
217. Supersymmetric Higgs-Sneutrino Inflation and Reheating, String Theory, Geometry and String Model Building, MITP, Mainz, Germany, September 10-21, 2018.
218. The R-Parity Violating Decays of Charginos and Neutralinos in the B-L MSSM, LHC ATLAS Meeting, CERN, Geneva, Switzerland, September 19-20, 2018.

219. Supersymmetric Higgs-Sneutrino Inflation and Reheating, Hot Topics in Modern Cosmology, Institut d'Etudes Scientifiques, Cargese, Corsica, France, May 6-10, 2019.
220. R-Parity Violating Decays of Chargino and Neutralino LSPs in the B -L MSSM, String Pheno 2019, CERN, Geneva, Switzerland, June 24-28, 2019.
221. The B-L MSSM, Low Energy Phenomenology and Cosmology, Conference on Holography, String Theory and Discrete Approaches, Du Tan University, Danang, Vietnam, August 5-7, 2019.
222. R-Parity Violating Decays of Wino Chargino and Bino Neutralino LSPs in the B -L MSSM, Supersymmetries and Quantum Symmetries- SQS'19, Yerevan, Armenia, August 26-31, 2019.
223. R-Parity Violating Decays of Wino Chargino and Bino Neutralino LSPs of the B -L MSSM, Frontiers in Physics: From Electroweak to the Planck Scales, Humboldt Kolleg Conference, Corfu, Greece, September 15-19, 2019.