

# 30 Years of Supersymmetry Symposium

## October 13-15, 2000

### **Friday, October 13**

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Cowles Auditorium, Hubert H. Humphrey Center  
301 19th Avenue South, Minneapolis, Minnesota

8:00 - 8:50 a.m. Registration

8:50 - 9:00 a.m. Welcome, Keith Olive

#### **Morning session - Arkady Vainshtein, Chair**

9:00 - 9:30 a.m. Vladimir Akulov, CUNY, Baruch College  
“Extended Supersymmetric Quantum Mechanics”

9:35 - 10:05 a.m. Pierre Ramond, University of Florida  
“Mysteries of Eleven Dimensions”

10:10 - 10:40 a.m. Coffee Break

10:40 - 11:10 a.m. Jean-Loup Gervais, L'Ecole Normale Supérieure, France  
“Supersymmetry and Integrability”

11:15 - 11:45 a.m. Bunji Sakita, City College CUNY  
“Symmetries of Fermions in the Lowest Landau Level”

11:50 - 12:20 p.m. Evgeny Likhthman, Moscow State University  
“Around SUSY-1970”

12:25 - 2:00 p.m. Lunch on your own

#### **Afternoon session - Antonio Masiero, Chair**

2:00 - 2:15 p.m. Natalia Koretz-Golfand  
“Recollections of My Husband”

2:15 - 2:45 p.m. Vyacheslav A. Soroka, Kharkov Institute of Physics and Technology  
“SUSY and Odd Poisson Bracket (Antibracket)”

2:50 - 3:20 p.m. Pierre Fayet, L'Ecole Normale Supérieure, France  
“About Superpartners and the Origin of the Supersymmetric Standard Model”

3:25 - 3:55 p.m. John Iliopoulos, L'Ecole Normale Supérieure, France  
TBA

4:00 - 4:30 p.m. Coffee Break

- 4:30 - 5:00 p.m. Sergio Ferrara, CERN, Switzerland  
"Supergravity: Achievements and Perspectives"
- 5:05 - 5:35 p.m. Peter Van Nieuwenhuizen, SUNY, Stony Brook  
"Kaluza-Klein Supergravity"
- 5:40 - 6:10 p.m. Hans Peter Nilles, University of Bonn, Germany  
"Supergravity"

## **Saturday, October 14**

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Cowles Auditorium, Hubert H. Humphrey Center  
301 19th Avenue South, Minneapolis, Minnesota

### **Morning session - Serge Rudaz, Chair**

- 9:00 - 9:30 a.m. Rosanne Di Stefano, Harvard University  
TBA
- 9:35 - 10:05 a.m. Martin Sohnius, Novell Inc.  
"Supersymmetry Before the Rush Hour – Recollections"
- 10:10 - 10:40 a.m. Coffee Break
- 10:40 - 11:10 a.m. S. James Gates, University of Maryland  
"Origins of Supersymmetry Research at Harvard"
- 11:15 - 11:45 a.m. Ali Chamseddine, American University of Beirut, (CAMS)  
"SUGRA Unification"
- 11:50 - 12:20 p.m. John Schwarz, Caltech  
"String Theory Origins of Supersymmetry"
- 12:25 - 2:00 p.m. Lunch on your own

### **Afternoon session - Arkady Tseytlin, Chair, Cowles Auditorium**

- 2:00 - 2:45 p.m. Savas Dimopoulos, Stanford University  
"Beyond the Standard Model: From the MSSM to Large Dimensions"
- 2:50 - 3:20 p.m. Peter West, King's College, London  
"A Review of Non-renormalisation Theorems in Supersymmetric Theories"
- 3:25 - 3:55 p.m. Bernard de Wit, Utrecht University, The Netherlands  
"Electric-magnetic Dualities in Supergravity"
- 4:00 - 4:30 p.m. Coffee Break
- 4:30 - 5:00 p.m. Bernard Julia, L'Ecole Normale Supérieure, France  
"Magic M-gravity"

5:05 - 5:45 p.m. Gabriele Veneziano, CERN, Switzerland  
“Entropy Bounds and the Cosmological Arrow of Time”

## **Sunday, October 15**

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Cowles Auditorium, Hubert H. Humphrey Center  
301 19th Avenue South, Minneapolis, Minnesota

### **Morning session - Mark Srednicki, Chair**

9:00 - 9:30 a.m. Michael Dine, UC Santa Cruz  
“Strings and Branes”

9:35 - 10:05 a.m. Philip Argyres, Cornell University  
“SUSY and Strongly-Coupled Gauge Theories”

10:10 - 10:40 a.m. Coffee Break

10:40 - 11:10 a.m. Lochlainn O’Raifeartaigh, Dublin Institute for Advanced Studies, Ireland  
“Fermions and Supersymmetry on the Lattice”

11:15 - 11:45 a.m. Howard Haber, UC Santa Cruz  
“Supersymmetric Phenomenology”

11:50 - 12:20 p.m. John Ellis, CERN, Switzerland  
“Astro-Particle Aspects of Supersymmetry”

12:25-12:30 p.m. Concluding Remarks, Mikhail Shifman

# Thirty Years of Supersymmetry

## October 16-27, 2000

### **Monday, October 16**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute  
435 Physics, 116 Church St. S.E., Minneapolis, Minnesota

- 9:00 - 9:45 a.m. Antonio Masiero, INFN, Padova, Italy  
“CP Violation: Worries and Hopes in SUSY”
- 10:00 - 10:45 a.m. Richard Arnowitt, Texas A & M University  
“Horava-Witten Phenomenology”
- 1:00 - 1:45 p.m. Stephen Pinsky, Ohio State University  
“Supersymmetric Discrete Light Cone Quantization”
- 2:00 - 2:45 p.m. Tilman Plehn, University of Wisconsin, Madison  
“CP Phases, Dipole Moments and a Linear Collider”
- 3:00 - 3:45 p.m. Heather Logan, Fermilab  
“SUSY Radiative Corrections at Large  $\tan\beta$ ”
- 4:00 - 4:20 p.m. Thomas Gajdosik, University of Alabama  
“Light Gauginos - A Solution to More Than the EDMs?”

### **Tuesday, October 17**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

- 9:00 - 9:45 a.m. Ian Kogan, Oxford University  
“Logarithmic Conformal Field Theories”
- 10:00 - 10:45 a.m. Sergio Ferrara, CERN  
TBA
- 1:00 - 1:45 p.m. Samir Mathur, Ohio State University  
“AdS/CFT Correspondence for the D1-D5 System”
- 2:00 - 2:45 p.m. Norisuke Sakai, Tokyo Institute of Technology, Japan  
“An Exact Solution of BPS Domain Wall Junction and its Properties”
- 3:00 - 3:45 p.m. Owe Tritman, Ohio State University  
“Testing the Maldacena conjecture with SDLCQ”
- 4:00 - 4:20 p.m. Jaime Bessporovany, UNAM, Mexico  
“Electroweak Interactions, Vector Bosons, and Leptons from Extended Dirac Equation”

## **Wednesday, October 18**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

- 9:00 - 9:45 a.m. G. Dvali, NYU  
TBA
- 10:00 - 10:45 a.m. Bernard de Wit, Utrecht University, The Netherlands  
“Corrections to the Supersymmetric Black Hole Entropy”
- 1:00 - 1:45 p.m. Michael Schmidt, Universitaet Heidelberg  
“Electroweak Baryogenesis in Supersymmetric Variants”

## **Thursday, October 19**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

- 9:00 - 9:45 a.m. Beatriz De Carlo, CERN  
"Domain walls in SUSY QCD"
- 10:00 - 10:45 a.m. Peter West, King's College, London  
“Strings and Branes”
- 1:00 - 1:45 p.m. Dan Hooper, University of Wisconsin, Madison  
“TeV Scale Neutralino Dark Matter and Indirect Detection”

## **Friday, October 20**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

- 9:00 - 9:45 a.m. Nir Polonsky, MIT  
“The Scale of Supersymmetry Breaking As a Free Parameter”
- 10:00 - 10:45 a.m. Zygmunt Lalak, University of Bonn, Germany  
“Aspects of Supersymmetry Breakdown in Brane Worlds”
- 1:00 - 1:45 p.m. Graham Kribs, Carnegie Mellon University  
“Gaugino-mediated SUSY Breaking”

## **Monday, October 23**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

- 10:00 - 10:45 a.m. Howard Baer, Florida State University  
“Revealing SUSY at Colliders”
- 2:00 - 2:45 p.m. Maxim Pospelov, University of Minnesota  
TBA

## **Tuesday, October 24**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

10:00 - 10:45 a.m. Michal Brhlik, University of Wisconsin  
“Charge and Color Breaking Minima in Supersymmetric Models”

2:00 - 2:45 p.m. Mariano Quiros, IES, Madrid  
“Baryogenesis in the MSSM”

## **Wednesday, October 25**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

10:00 - 10:45 a.m. Vyacheslav A Soroka, Kharkov Institute of Physics and Technology  
“Supersymmetric D=1, N=1 Models with Lagrangians of Diverse Grassmann Parities”

2:00 – 2:45 p.m. Zurab Berezhiani, Aquila Univ., Italy  
“Flavor Structure and Supersymmetry”

## **Thursday, October 26**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

10:00 - 10:45 a.m. Kong, Academia Sinica, Taiwan  
“The Generic Supersymmetric Standard Model as the Complete Theory of Supersymmetry without R-parity”

## **Friday, October 27**

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Steve Gasiorowicz Seminar Room, Theoretical Physics Institute

10:00 - 10:45 a.m. Emil Akhmedov, ITEP & University of British Columbia  
“Holography and RG-flow”