

Invited Plenary Talks and Colloquia

1. September 1992, Erice, Workshop on “The Decay Properties of SUSY Particles”, *R-Parity Violation at Future Colliders*.
2. May 1995, SUSY-95, Paris, *Model Building with a Gauged R-Symmetry in Local Supersymmetry*
3. December 1995 Santa Barbara, *Gauged R-Symmetry and R-parity Violation*;
4. May 1996, DESY-Hamburg, *Summary talk of the ‘Beyond the Standard Model Group’ of the 3rd HERA Workshop, ‘Future Physics at HERA’*
5. December, 1996 Ringberg Workshop, *How to find the Standard Model Higgs between 155-180 GeV at the LHC*
6. April, 1997, Oxford LEP II Workshop, *Introduction to Supersymmetry with Broken R-Parity*
7. May, 1997, University of Pennsylvania, SUSY-97, *A new Mechanism to Solve the Small Scale Problem of Supersymmetry*
8. June, 1997, Ringberg Workshop on Beyond the Standard Model, *R-Parity Violation at HERA and the High Q^2 Anomaly*
9. December, 1997, Rutherford Laboratory, Review Talk at the British Christmas Theory Meeting, *Supersymmetry and the High Q^2 Anomaly at HERA*
10. January, 1998, WHEPP-5, Pune, India, *R-Parity Violation*
11. February, 1998, CERN, LHC Workshop, *$H \rightarrow WW \rightarrow \ell\nu\nu$ as a Higgs Discovery Mode at the LHC in the SM and MSSM*
12. May, 1998, Fermilab, plenary talk at Run II workshop on Supersymmetry; *R-parity Violation: Motivation and Outlook at the Tevatron*
13. November, 1998, Fermilab, summary talk for the Beyond the MSSM working group of the SUSY/Higgs Run II Workshop.
14. December, 1999, Paris, Jussieu, talk on R-parity Violation to the national Group de Recherche (GDR) on supersymmetry.
15. January, 2003, PSI Villingen, Switzerland, *Lepton Number Violation in Supersymmetry*.
16. January, 2007, Universität Köln, *The LHC: How to look for new physics Beyond the Standard Model*
17. March, 2007, EPF-2007 Leiden, *A Physics Show by students for kids*
18. June, 2007, Planck-2007, Warsaw, *Proton Hexality Violating $mSUGRA$ model at the LHC*

19. May, 2008, Göttingen, *Colloquium on “A Physics Show by Students for Kids”*
20. January, 2009, Wuppertal, *Colloquium on “A Physics Show by Students for Kids”*
21. January, 2009, DESY-Zeuthen, *R-Parity Violation: Motivation and LHC Signatures*
22. February, 2009, *R-Parity Violation: Motivation and LHC Signatures*
23. February, 2009, Broohaven National Laboratory, *How light can the lightest supersymmetric particle be?*
24. April, 2009, MPI-München, *How light can the lightest supersymmetric particle be?*
25. June, 2009, SUSY-09, *R-Parity Violation: Motivation and LHC Signatures*

Invited Talks to Experimental Collaborations

1. December 1994, CERN, invited talk at the Delphi-Collaboration meeting, *Supersymmetry with broken R-parity at LEP and LEP200*
2. February 1997, CERN, invited talk to the OPAL Collaboration, *R-Parity Violation at e^+e^- -Colliders and at HERA*
3. September, 1997, ALEPH Collaboration Meeting, Oxford, *R-Parity Violation at LEP II*
4. February, 2009, ATLAS Collaboration, *R-parity Violating Signatures at the LHC*

Conference Talks, University and Laboratory Seminars

1. December, 1988, ETH-Zürich, *Model Building in the Free Fermionic Formulation of Superstrings.*
2. October, 1990, LHC-Workshop, Aachen, *R-parity Violation.*
3. February, 1991, Rutherford Laboratory, *R-Parity Violation and Collider Physics.*
4. March, 1991, DESY, 2nd HERA Workshop, *Resonance Squark production at HERA.*
5. March, 1991, Cambridge, *A Test of Bell’s Inequality at LEP.*
6. March 1991, “Beyond the Standard Model”, Bad Honnef Meeting, *Bounds on R-Parity Violation.*
7. June, 1991, EE500-Workshop, Annecy, *Signals for R-Parity Violation.*
8. July 1991, Parallel Session, Lepton-Photon Conference, Geneva, *Bounds on R-Parity Violation from Baryogenesis.*
9. August 1991, Argonne National Laboratory, *R-Parity Violation and Collider Physics.*
10. August 1991, Madison, *Testing Bell’s Inequality from eV to GeV.*

11. September 1991, Madison, Berkeley, SLAC, *R-Parity violation: Cosmological Bounds and Collider Physics*.
12. January 1992, Meeting of the Hellenic Society, Ioannina, Greece, *Testing Bell's Inequality at LEP?*
13. February, 1992, Rutherford Laboratory, Durham University, *Discovering Supersymmetry at HERA*.
14. February 1992, Durham, *Testing Bell's Inequality at LEP?*
15. April 1992, "Beyond the Standard Model", Bad Honnef Meeting, *Sphaleron Erasure of GUT-scale Baryogenesis*.
16. May 1992, Southampton, *Cosmological Bounds on R-parity Violation*.
17. September 1992, Columbus, Ohio, Workshop on Tau-Physics, *Correlated Tau Decays as a Test of Bell's Inequality?*
18. March 1993, "Beyond the Standard Model", Bad Honnef Meeting, *Detecting Supersymmetry at HERA*.
19. May 1993, Columbus, Ohio; Southampton, UK, *Supersymmetry at HERA*.
20. July 1993, Marseille, Parallel Session at the EPS-HEP conference, *Lepton Masses Protect the Primordial Baryon Asymmetry from Sphaleron erasure*.
21. July 1993, ETH-Zürich, *Collider Phenomenology of R-parity Violation*.
22. August 1993, St. Andrews UK Theory Inst., *Supersymmetry at HERA*.
23. August 1994, DPF Meeting Albuquerque, *τ Signals for Supersymmetry at HERA*
24. September 1994, Summer Institute Aspen, University of Pennsylvania, University of Wisconsin, *Neutrino Masses from Gauge Symmetries*
25. November 1994, Neuchatel, Switz.; *Massive Fermions in a Sphaleron Background*
26. March, 1995, 'Beyond the Standard Model' DPG-Meeting, Bad Honnef, *$U(1)'$ in Local Supersymmetry*
27. May 1995, TU-München, Southampton, *Model Building with a Gauged R-Symmetry in Local Supersymmetry*
28. June 1995 University of Heidelberg, NIKHEF Amsterdam, *Model Building with a Gauged R-Symmetry in Local Supersymmetry*
29. June 1995, Gesamthochschule Wuppertal, *Neutrino masses and Gauge Symmetries*
30. October 1995 CEBAF/William & Mary, *R-Parity Violation: An Overview*
31. November 1995, University of Oregon, R-Parity Violation-Theory, Phenomenology, Cosmology
32. December 1995 UC-Berkeley *Gauged R-Symmetry and R-parity Violation*;

33. December 1995, SLAC, *R-Parity Violation-Theory, Phenomenology, Cosmology*
34. June, 1996, ETH-Zürich, TU-München, *4-Jet Events at Aleph and Supersymmetry*
35. November, 1996, RAL; Southampton University; Lancaster University; Birmingham University, *How to find the Standard Model Higgs between 155-180 GeV at the LHC*
36. December, 1996 Oxford University; Ringberg Workshop, *How to find the Standard Model Higgs between 155-180 GeV at the LHC*
37. January, 1997, Cavendish Laboratory, Cambridge; Durham University, *How to find the Standard Model Higgs between 155-180 GeV at the LHC*
38. March, 1997, DAMTP, Cambridge; Rutherford Laboratory, *Interpretations of the Q^2 Anomaly at HERA*
39. April, 1997, University of Oxford, *Interpretations of the Q^2 Anomaly at HERA*
40. April, 1997, Ecole Polytechnique, Paris, *Interpretations of the Q^2 Anomaly at HERA*
41. November, 1997, University College London, *R-Parity Violation, An Overview*
42. March, 1998, Bad Honnef, Beyond the Standard Model Meeting, *$H \rightarrow WW \rightarrow \ell\nu\nu$ as a Higgs Discovery Mode at the LHC in the SM and MSSM*
43. April, 1998, NIKHEF, Amsterdam, *$H \rightarrow WW \rightarrow \ell\nu\nu$ as a Higgs Discovery Mode at the LHC in the SM and MSSM*
44. November, 1998, Liverpool, *$H \rightarrow WW \rightarrow \ell\nu\nu$ as a Higgs Discovery Mode at the LHC in the SM and MSSM*
45. November, 1999, Bristol, *Higgs Searches at the LHC*
46. December, 1999, Durham, colloquium on *R-parity Violation*
47. February, 2000, Sussex, DAMTP-Cambridge, Bonn-Bad Honnef, *A Supersymmetric Solution to the Karmen Time-Anomaly*
48. February, 2001, Liverpool, Cavendish, *Light bottom Squark*
49. June, 2001, Aachen, *Phenomenology of R-Parity Violation and the NuTeV Di-Muon Events*
50. November, 2001, Würzburg *R-Parity Violation and B-Physics*
51. June, 2002, Jena, *Supergravity and $B_s \rightarrow \mu\mu$*
52. June, 2002, Dortmund, *$B \rightarrow \mu\mu$ and Trileptons at the Tevatron*
53. November, 2002, Prague, *Embedding Supersymmetry with Broken R-parity in Minimal Supergravity.*
54. March, 2003, Aachen, DPG, *A Light Neutralino and Supernova 1987a.*

55. March, 2003, Bad Honnef, *A Light Neutralino and Supernova 1987a*.
56. May, 2003, Madrid, Planck-03, *A Light Neutralino and Supernova 1987a*.
57. September, 2003, DESY Theory Workshop, *The R-Parity Violating mSUGRA model and Bounds from Neutrino Masses*
58. December, 2003, Paris, GDR-Meeting, *The R-Parity Violating mSUGRA model and Bounds from Neutrino Masses*
59. April, 2004, RWTH Aachen, *Lepton Number Violation and the RPV-MSSM*
60. May, 2004, Oxford, *A Light Neutralino and Supernova 1987a*
61. January, 2006, MPI München, *What is the Discrete Symmetry of the MSSM?*
62. February, 2006, Würzburg, *What is the Discrete Symmetry of the MSSM?*
63. June, 2006, DAMTP Cambridge, *Phenomenology of a Light Neutralino*
64. August, 2006, Aspen, *How light can the lightest Neutralino be? Cosmological, Astrophysical and Collider Constraints.*
65. January, 2007, Heidelberg, *How light can the lightest Neutralino be? Cosmological, Astrophysical and Collider Constraints.*
66. September, 2007, Heidelberg, *Searching for New Physics at the LHC: 2 Examples*
67. December, 2007, Karlsruhe, *Searching for Supersymmetry with Baryon Triality at the LHC.*
68. February, 2008, LMU München, *Supersymmetry with Baryon Triality*
69. March, 2008, Bern, *Supersymmetry with Baryon Triality*
70. April, 2008, Santa Barbara, LHC Workshop, *Supersymmetry with Baryon Triality: Motivation and Signals at the LHC*
71. January, 2009, DESY Zeuthen, *Baryon Triality and LHC Searches*
72. February, 2009, CERN, LHC2FC Workshop, *Baryon Triality and Collider Signals*
73. February, 2009, NIKHEF, *How light can the lightest supersymmetric particle be?*
74. March, 2009, Brookhaven Nat'l Lab., *How light can the lightest supersymmetric particle be?*
75. March, 2009, SLAC, *How light can the lightest supersymmetric particle be?*
76. April, 2009, MPI-München, *How light can the lightest neutralino be?*

Popular Talks

1. December, 2001, Bonn Inaugural Lecture, *Wat Es En Neutrino?* (Entertaining popular talk on neutrino physics, partly in local dialect)
2. June, 2002, Nonnenwert (local highschool, outside Bonn), *Wat Es En Neutrino?*
3. July, 2002, Bonn, Alumni Association, *Wat Es En Neutrino?*
4. February, 2003, Bonn, MPIfR Graduate School, *What the XXXX is a Neutrino?*
5. November, 2005, Deutsches Museum, Bonn, *Einstein 1905: Ein Dreigänge Menü* (Entertaining talk about Einstein's three main discoveries in 1905: Brownian Motion, Photoelectric Effect and Special Relativity; including extensive experimental presentations)
6. December, 2005, Crowne Plaza Hotel, Köln, *Werner Heisenberg und die Unschärferelation*. Vortrag im Rahmen der Kulturgespräche Köln, zusammen mit der Theatergruppe *c.t.201*.
7. March, 2006, Physics lecture hall, Bonn, repeat of the Einstein lecture for 550 school kids.
8. January, 2007, together with Deutsche Museum Bonn, organised lecture by Hannes Lindemann, on solo-Atlantic crossing
9. November 2007, Deutsches Museum, Bonn, *LHC für Anfänger*; 45min talk at LHC day hosted jointly with two Bonn experimentalists.
10. April 2008, *jDPG Meeting in Bad Honnef*, *Research and Job Prospects in Particle Physics*, talk for physics students.
11. April, 2009, *LHC: die größte Maschine der Welt*, KinderUni Bonn.

Physik Show Presentations

1. November, 2002 (2 Performances), First Show: *Odyssee durch die Physik*
2. March, 2003, (4 Performances), Repeat of Nov. 2002 Show.
3. September, 2003 (3 Performances), New Show: *Odyssee durch die Physik II*
4. March, 2004, (3 Performances), Repeat of Sept. 2003 Show.
5. September, 2004 (3 Performances), New Show: *Wer nicht fragt bleibt dumm*
6. Februar, 2005 (3 Performances), Repeat of Sept. 2004 Show
7. September, 2005 (3 Performances), New Show: *Eine Zeitreise durch die Physik*
8. July, 2004, Wissenschaftsnacht der Universität Bonn. Continuous presentation at an evening science fair.

9. October, 2005, Deutsches Museum, Bonn. Presentation in honour of 10th Anniversary of the Deutsches Museum, Bonn.
10. February, 2006 (3 Performances), Repeat: *Eine Zeitreise durch die Physik*
11. March, 2006, Deutsches Museum, München. 75min Show, 3 performances, two for school classes, one evening performance with entrance fee.
12. July, 2006, 3x 30min new show at Wissenschaftsnacht Bonn on the special topic: "Water".
13. September, 2006, (3 Performances) *Episode V, Das Spiel zur Realität*
14. March, 2007, Repeat, (4 Performances) *Episode V, Das Spiel zur Realität*
15. June, 2007, full day of performances at a "Fun in the Parks" event in Bonn.
16. September, 2007, (4 Performances) *Physik im Alltag*
17. November, 2007, 30min Physikshow at the inauguration of the Bonn-Cologne graduate school.
18. November, 2007, 60min Physikshow by high-school students performed in their school: Amos Comenius, Bonn
19. December, 2007, *Weihnachten mit der Physikshow*, special Christmas show
20. March, 2008, Repeat, (4 Performances) *Physik im Alltag*
21. May, 2008, Colloquium in Göttingen including a 40min Physikshow performance
22. May-June, 2008, 10 classes in local elementary school; together with 10 physics students.
23. Sept 2008, Per Anhalter durch die Galaxis, 3 performances.
24. November, 2008, BMBF Exhibition *Weltmaschine* in a new subwat station in Berlin, *Die teilchenphysikshow Bonn*, 4 performances.
25. Nov-Dec, 2008, 10 classes in local elementary school; together with 10 physics students.
26. March, 2009, Deutsches Museum, München, *Die teilchenphysikshow Bonn*, 3 performances.
27. June 2009, Per Anhalter durch die Galaxis, 3 performances.