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* 3^{rd} *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, $H \to WW \to \ell\ell\nu\nu$ *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, Warszaw, *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, 2^{nd} 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, $H \to WW \to \ell\ell\nu\nu$ *as a Higgs Discovery Mode at the LHC in the SM and MSSM*

43. April, 1998, NIKHEF, Amsterdam, $H \to WW \to \ell\ell\nu\nu$ *as a Higgs Discovery Mode at the LHC in the SM and MSSM*

44. November, 1998, Liverpool, $H \to WW \to \ell\ell\nu\nu$ *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* $B_s \to \mu\mu$

52. June, 2002, Dortmund, $B \to \mu\mu$ *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. Continuos presentation at an evening science fair.

9. October, 2005, Deutsches Museum, Bonn. Presentation in honour of 10^{th} 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 inclusing 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.