

PUBLICATIONS

Most Cited Papers:

1. **Bounds on R-Parity Violating Couplings at the Weak Scale and at the GUT Scale** [285 Citations]
B.C. Allanach, A. Dedes, H.K. Dreiner,
Phys. Rev. D60 (1999) 075014, hep-ph/9906209.
2. **How to find a Higgs boson with a mass between 155-GeV - 180-GeV at the LHC** [234 Citations]
M. Dittmar, Herbert K. Dreiner
Phys.Rev.D55:167-172,1997; hep-ph/9608317
3. **Sphaleron Erasure of Primordial Baryogenesis** [214 Citations]
H. K. Dreiner and G.G. Ross,
Nuclear Physics B 410 (1993) 188.
4. **Correlations of $B_s \rightarrow \mu\mu$ and $(g - 2)_\mu$ in Minimal Supergravity** [213 Citations]
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5. **R-Parity Violation at Hadron Colliders** [197 Citations]
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6. **The R Parity Violating Minimal Supergravity Model** [159 Citations]
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7. **R-parity violation at HERA** [146 Citations]
J. Butterworth, Herbert K. Dreiner
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8. **Benchmark Models, Planes, Lines and Points for Future SUSY Searches at the LHC** [114 Citations]
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9. **Chargino pair production in e+ e- collisions** [106 Citations]
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10. **High Q^2 Anomaly at HERA and Supersymmetry** [103 Citations]
Herbert K. Dreiner, P. Morawitz
Nucl.Phys.B503:55-78,1997; hep-ph/9703279
11. **Anomaly-Free Gauged R symmetry in Local Supersymmetry** [101 Citations]
A. H. Chamseddine, and H.K. Dreiner,
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Review Articles:

1. **An Introduction to explicit R-parity violation** [475 Citations]
Herbert K. Dreiner
Published in 'Perspectives on Supersymmetry', Ed. by G.L. Kane, World Scientific;
hep-ph/9707435
2. **Two-component spinor techniques and Feynman rules for quantum field theory and supersymmetry** [145 Citations]
Herbi K. Dreiner, Howard E. Haber, Stephen P. Martin
Phys.Rept. 494 (2010) 1-196; arXiv:0812.1594 [hep-ph] (246pp).
3. **Review of Particle Physics**
Particle Data Group Collaboration (K.A. Olive (Minnesota U.) et al.)
Chin.Phys. C38 (2014) 090001

Articles on Outreach & Popular Articles:

- O1. **A Physics Show Performed by Students for Kids: From Mechanics to Elementary Particle Physics**
H. K. Dreiner
The Physics Teacher 46:358,2008, e-print: physics/0701344
- O2. **It's Physikshow Time in Germany**
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CERN Courier, October, 2007
- O3. **Fun Physics in School: Students perform for Students**
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- O4. **Viewpoint: Mixed Feelings About a Rare Event**
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- O5. **Particle physics: A Higgs is a Higgs**
Herbi Dreiner
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H. K. Dreiner, J. Ellis, D. Nanopoulos, N. Tracas, and N. Vlachos,
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2. **$b \rightarrow s\gamma$ in Superstring Inspired Models**
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4. **No Massless Scalar Adjoints for N=1, D=4 Heterotic Strings in the Free Fermionic Formulation**
H. K. Dreiner, J. L. Lopez, D. V. Nanopoulos, and D. B. Reiss,
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5. **The Spin of the Proton in a Hybrid Chiral Bag Model**
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6. **R-Parity Violation at Hadron Colliders**
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7. **Top Quark Searches and R-Parity Violation at Hadron Colliders**
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10. **R-Parity Violation at HERA**
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11. **Sphaleron Erasure of Primordial Baryogenesis**
H.K. Dreiner and G.G. Ross,
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12. **Ansatz for Quark, Charged Lepton, and Neutrino Masses in SUSY GUTS**
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13. **Like-Sign Dilepton Signature for Gluino Production at the LHC with or without R-Parity Conservation**
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14. **Signals for Supersymmetry at HERA**
H.K. Dreiner and P. Morawitz,
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15. **Neutrino Masses from Gauge Symmetries**
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16. **Anomaly-Free Gauged U(1)-prime in Local Supersymmetry and Baryon Number Violation**
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17. **Anomaly-Free Gauged R symmetry in Local Supersymmetry**
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18. **Chargino Pair Production at LEP2 with Broken R-Parity: 4-Jet Final States**
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20. **How to Find the Standard Model Higgs Boson with a Mass Between 155 - 180 GeV at the LHC**
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23. **Single Sneutrino and Slepton Production at LEP-2 and the NLC**
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24. **Chargino Pair Production in e^+e^- Collisions**
S.Y. Choi, A. Djouadi, H.K. Dreiner, J. Kalinowski, and P.M. Zerwas,
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25. **Two-Loop Supersymmetric Renormalization Group Equations including R-Parity Violation and Aspects of Unification**
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32. **Attempts at Explaining the NuTeV Observation of Dimuon Events**
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33. **Correlations of $B_s \rightarrow \mu\mu$ and $(g - 2)_\mu$ in Minimal Supergravity**
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40. **What is the Discrete Gauge Symmetry of the MSSM?**
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41. **Mass Spectrum in R-Parity Violating mSUGRA and Benchmark Points**
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48. **Supersymmetric Jarlskog invariants: The Neutrino sector**
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49. **Proton Hexality from an Anomalous Flavour $U(1)_X$ and Neutrino Masses - Linking to the String Scale**
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51. **Disentangling CP phases in nearly degenerate resonances: Neutralino production via Higgs at a muon collider**
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54. **Fun Physics in School: Students perform for Students**
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72. **Benchmark Models, Planes, Lines and Points for Future SUSY Searches at the LHC**
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78. **New bounds on trilinear R-parity violation from lepton flavor violating observables**
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92. **Supernova constraints on MeV dark sectors from e^+e^- annihilations**
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93. **CheckMATE: Confronting your Favourite New Physics Model with LHC Data**
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- W1. **R-Parity Violation at the LHC**,
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