

# Forschung Hochenergiephysik

## H1-Experiment

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M.-O. BÖNIG  
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M. BRINKMANN  
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O. BEHNKE  
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J. BRACINIK  
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M.-O. BÖNIG  
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B. A. KNIEHL, V. A. SALEEV, D. V. VASIN  
Heavy Quarkonium Production in the Regge limit of QCD.

G. KRAMER  
Recent developments in heavy flavour production.

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A. BACCHETTA  
Transversity: Present and Future.  
Workshop on Transverse Momentum, Spin, and Position Distributions of Partons in Hadrons, Trento/IT (06/2007)

F. BAUER  
Relaxing Neutrino Mass Bounds by a Running Cosmological Constant.  
Symposium on Particle Cosmology, Hamburg/DE (12/2007)

W. BUCHMULLER  
Gravitino Dark Matter at LHC and GLAST.  
Seminar, Milano/IT (02/2007)

Gravitino Dark Matter at LHC and GLAST.  
Workshop at MPK Heidelberg, Heidelberg/DE (03/2007)

Leptogenesis and Gravitino Dark Matter.  
Colloquium, GSI Darmstadt/DE (06/2007)

Gravitino Dark Matter at LHC and GLAST.  
Theory Institute CERN, Geneva/CH (07/2007)

Orbifold GUTs versus Orbifold Strings.  
VIPAC Workshop, Bonn/DE (10/2007)

Leptogenesis as the Origin of Matter.  
Colloquium, Zurich/CH (10/2007)

Supergravity at Colliders and in Gamma-Ray Astronomy.  
Colloquium, Utrecht/NL (11/2007)

Dark Matter in the Universe.  
Colloquium, Mainz/DE (11/2007)

Dark Matter I-III.  
SFB Lectures, Hamburg/DE (01/2007)

R. CATENA  
Cosmological Implications of a Supersymmetric Extension of the Brans-Dicke Theory.  
PASCOS 07, London/GB (07/2007)

L. COVI  
Supersymmetric Dark Matter and Colliders.  
Cortona 07, Cortona/IT (05/2007)

Gravitino Dark Matter with  $\tilde{\nu}$  NLSP or R-parity Violation.  
LCWS 2007, Hamburg/DE (05/2007)

Gravitino Dark Matter in Gaugino Mediation (and Beyond ...).  
10th European Meeting From the Planck Scale to the Electroweak Scale, Warsaw/PL (06/2007)

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Dark Matter Candidates.  
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ENTApP-07 Meeting, Matalascanas/ES (09/2007)

Supersymmetric Dark Matter.  
Transregio 33 Annual Meeting, Bad Honnef/DE (09/2007)

Gravitino Dark Matter without R-parity.  
4th Ultramini-workshop on Phenomenology: Dark Matter and the LHC, Edinburgh/UK (11/2007)

Observational Constraints on Inflation with a Step.  
Seminar, Heidelberg/DE (01/2007)

Dark Matter and Supersymmetry: WIMPs and Exotic Candidates.  
Seminar, Freiburg/DE (01/2007)

Dark Matter and Supersymmetry.  
Seminar, Munich/DE (12/2007)

Dark Energy and Dark Matter.  
PASC Winter School, Sesimbra/PT (12/2007)

M. DIEHL  
Summary of the Working Group on Diffraction: Theory Part.  
Workshop on HERA and the LHC, Hamburg/DE (03/2007)

Theoretical Developments for QCD at HERA.  
Two lectures at Universidad Tecnica Federico Santa Maria, Valparaiso/CL (04/2007)

Unraveling the Partonic Structure of Hadrons.  
Workshop on Transverse Momentum, Spin, and Position Distributions of Partons in Hadrons, Trento/IT (06/2007)

Implications of HERA Measurements for LHC.  
LP 07, Daegu/KR (08/2007)

- Generalized Parton Distributions and All That.  
Four lectures at the Central European School in Particle Physics, Prague/CZ (09/2007)
- Theoretical Introduction.  
Journées GDR Nucléon: Extracting GPDs, Palaiseau/FR (11/2007)
- NLO Corrections for Vector Meson Production.  
Journées GDR Nucléon: Extracting GPDs, Palaiseau/FR (11/2007)
- O. EGGERS BJAELDE, A.W. BROOKFIELD, C. VAN DE BRUCK, S. HANNESTAD, D.F. MOTA, L. SCHREMPF, D. TOCCHINI-VALENTINI  
The stability Issue in Models of Neutrino Dark Energy.  
JIGSAW 2007, Mumbai/IN (02/2007)
- The Stability Issue in Models of Neutrino Dark Energy.  
19th Workshop on Beyond the Standard Model, Bad Honnef/DE (03/2007)
- Stability Considerations about Models of Neutrino Dark Energy.  
Invited Seminar at the University of Heidelberg, Heidelberg/DE (04/2007)
- Neutrino Dark Energy – Revisiting the Stability Question.  
The Hunt for Dark Matter Symposium, Fermilab, Batavia/USA (05/2007)
- The Stability Issue in Models of Neutrino Dark Energy.  
Origins of Dark Energy Conference, Origins Institute, Hamilton/CA (05/2007)
- Neutrino Dark Energy – Revisiting the Stability Issue.  
The Path to Neutrino Masses Workshop, Aarhus/DK (09/2007)
- On the Stability of Neutrino Dark Energy.  
Invited Seminar at the University of Rome, La Sapienza, Rome/IT (10/2007)
- M. GOMEZ-BOCK, M. MONDRAGON, M. MUHLEITNER, M. SPIRA, P.M. ZERWAS  
Concepts of Electroweak Symmetry Breaking and Higgs Physics.  
HEP School, Vina del Mar, Santiago/CL (02/2007)
- M. HENTSCHINSKI  
BFKL-equation and the 2 to 4 Reggeon Transition Vertex From the Effective Action.  
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- M. HENTSCHINSKI, J. BARTELS, L.N. LIPATOV  
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- M. HENTSCHINSKI  
Unitarity Corrections From the Effective Action.  
School on QCD, Low x Physics, Saturation and Diffraction, Copanello/IT (07/2007)
- A. IBARRA  
Hints on the High-energy Seesaw Mechanism From the Low-energy Neutrino Spectrum.  
Weak Interactions and Neutrinos WIN07, Kolkata/IN (01/2007)
- Gravitino Dark Matter With Broken R-parity.  
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- Gravitino Dark Matter with Broken R-parity.  
10th European Meeting from the Planck Scale to the Electroweak Scale, Warsaw/PL (06/2007)
- Hints on the High-energy Seesaw Mechanism From the Low-energy Neutrino Spectrum.  
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- Gravitino Dark Matter with Broken R-parity.  
Transregio 33 Annual Meeting, Bad Honnef/DE (09/2007)
- Neutrino Parameters from Large Yukawa Hierarchies.  
2nd Workshop on Flavour Dynamics, Albufeira/PT (11/2007)
- Gamma-ray Signatures From Decaying Dark Matter.  
Prospects for the detection of dark matter, Matalascanas/ES (09/2007)
- Flavour Effects in Leptogenesis.  
Talk, Aachen/DE (05/2007)
- Neutrino Physics Beyond the Standard Model.  
Shri Rajendra Lal Mitra Professorship Lecture, Kolkata/IN (01/2007)
- Gravitino Dark Matter with Broken R-parity.  
Talk, Trieste/IT (11/2007)
- Gravitino Dark Matter With Broken R-parity.  
Talk, Paris/FR (12/2007)
- Gravitino Dark Matter: Signatures From Colliders and Gamma Ray Observatories.  
Talk, Würzburg/DE (04/2007)
- Implications of Leptogenesis for SUSY Dark Matter.  
International Meeting on Lepton Properties and the Cosmological Origin of Matter, Recinto Quirama, Antioquia/CO (12/2007)
- H.A. KASTRUP  
A „Dark“ Side of the Quantum Mechanics for the Harmonic Oscillator.  
ICSSUR, Bradford/UK (03/2007)
- A New Look at the Quantum Mechanics of the Harmonic Oscillator.  
Seminar at the Institute for Theoretical Physics, Utrecht/NL (10/2007)
- A New Look at the Quantum Mechanics of the Harmonic Oscillator.  
Seminar Institute for Theoretical Physics, Freiburg (Breisgau)/DE (11/2007)
- W. KILLIAN, P.M. ZERWAS  
The ILC Physics Case.  
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- G. KRAMER  
Recent Theoretical Results For Heavy Flavor Production.  
4th International Conference on Flavor Physics, Beijing/CN (09/2007)

- Recent Developments in Heavy Flavour Production.  
Institute of High Energy Physics, Chinese Academy of Science,  
Beijing/CN (09/2007)
- J. MÖLLER  
Axion-Dilaton Cosmology and Dark Energy.  
TRR 33 Meeting, Bad Honnef/DE (10/2007)
- L. MOTYKA  
Exclusive Processes at HERA From the Saturation Model.  
3rd HERA and the LHC workshop, Hamburg/DE (03/2007)
- Hard Scattering Corrections to Exclusive Higgs Boson Production.  
Workshop on Hard Diffraction at LHC, Krakow/PL (10/2007)
- Y. OKAWA  
Frontiers in String Field Theory.  
Seminar at the Tokyo Institute of Technology, Tokyo/JP (02/2007)
- Analytic Solutions for Marginal Deformations in Open String  
Field Theory.  
Invited talk at Komaba2007, University of Tokyo, Tokyo/JP  
(02/2007)
- Analytic Solutions for Marginal Deformations in Open String  
Field Theory.  
Seminar at the AEI Potsdam, Potsdam/DE (03/2007)
- Analytic Solutions for Marginal Deformations in Open String  
Field Theory.  
Seminar at the Niels Bohr Institute, Copenhagen/DK (03/2007)
- General Marginal Deformations in Open String Field Theory.  
Invited talk at RIKEN symposium SFT07, Wako, Saitama/JP  
(10/2007)
- B.D. PECJAK  
 $B \rightarrow V\gamma$  Decays at NNLO in SCET.  
Workshop on Flavour Dynamics, Albufeira/PT (11/2007)
- Factorization in DIS at Large  $x$ .  
SCET 2007 Workshop, Berkeley/USA (03/2007)
- N. PINAMONTI  
Localization and Position Operators in Möbius Covariant Theories.  
Invited seminar at Erwin Schrödinger Institute Wien: Workshop on  
New Developments in Perturbative Quantum Field Theory,  
Wien/AT (03/2007)
- M. RADICI, F. CONTI, A. BACCHETTA, A. BIANCONI  
Nucleon Spin Structure With Hadronic Collisions at COMPASS.  
International Workshop on Structure and Spectroscopy,  
Freiburg/DE (03/2007)
- J. REDONDO  
Low Energy Experiments to Explore the Hidden Sector.  
Universitat de Barcelona, Barcelona/ES (12/2007)
- A. RINGWALD  
Particle Interpretations of the PVLAS Data – Axion-Like or  
Micro-Charged Particles?  
Seminar, Brussels/BE (02/2007)
- Are There Very Light and Very Weakly Interacting Particles  
Beyond the Standard Model?  
Seminar, Padova/IT (02/2007)
- Particle Interpretations of the PVLAS Data.  
12th International Workshop on Neutrino Telescopes, Venice/IT  
(03/2007)
- The PVLAS Puzzle: A Glimpse of Physics beyond the Standard  
Model?  
UK BSM 2007 Workshop, Liverpool/UK (03/2007)
- Searching for New Physics at the Sub-eV Scale.  
Theoretical Particle Physics Seminar, Oxford/UK (05/2007)
- Searches for Axions and Other Weakly Interacting Sub-eV  
Particles.  
Schule für Astroteilchenphysik, Obertrubach-Bärnfels/DE  
(10/2007)
- Exploring Physics Beyond the Standard Model With Low Energy  
Photons.  
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- Exploring Physics Beyond the Standard Model with Low Energy  
Photons.  
Seminar, Rome/IT (11/2007)
- The Low-Energy Frontier – Searching for Axions and Other Very  
Light Particles Beyond the Standard Model.  
Seminar, Wuppertal/DE (12/2007)
- Physics Case for a Low-Energy Frontier.  
Meeting Low-Energy Frontier Discussion Group, Hamburg/DE  
(12/2007)
- A. RINGWALD, L. SCHREMPF  
Probing the Variation of Relic Neutrino Masses with LOFAR.  
Invited Seminar, KVI Groningen/NL (02/2007)
- V. SCHOMERUS  
Duality in Curved Backgrounds.  
Strong Fields, Integrability and Strings, Cambridge/GB (07/2007)
- Sigma Models on Superspaces.  
Integrability in Gauge and String Theory, Saclay/Paris/FR  
(06/2007)
- RG Flows in 2D Quantum Field Theory.  
Renormalization Group Flow and Ricci Flow, Vienna/AT  
(10/2007)
- From Supergeometry to Logarithmic CFT.  
International Conference on Symmetries of String Theory,  
Ascona/CH (08/2007)
- Wess-Zumino-Witten Models on Supergroups.  
Supersymmetry and Integrability, Strassbourg/FR (05/2007)
- Strings für die Quantenchromodynamik.  
Physics colloquium, Karlsruhe/DE (01/2007)
- Sigma Models on Superspaces.  
Theoretical Physics Seminar/ King's College London, London/GB  
(02/2007)
- String Duality in Curved Backgrounds.  
Dublin Theoretical Physics Colloquium, Dublin/IE (11/2007)

F. SCHREMPF  
HELEN at DESY.  
3rd Meeting of HELEN Executive Board, Mexico City/MX  
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J. TESCHNER  
Warm-up for Solving Noncompact Sigma Models: The  
Sinh-Gordon Model.  
12th Claude Itzykson Meeting – Integrability in Gauge and String  
Theory, Paris/FR (06/2007)

On the Spectrum of the Sinh-Gordon Model in Finite Volume.  
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P.M. ZERWAS  
Reconstructing Supersymmetric Theories.  
Lab. Phys. Theor. Univ. Paris-Sud, Orsay/FR (11/2007)

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British HEP School, York/UK (08/2007)

Determining the Spin of Supersymmetric Particles.  
Supersymmetry Conference SUSY07, Karlsruhe/DE (07/2007)

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Physics Inst., Univ. of Mexico, Mexico City/MX (03/2007)

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Physics Near Grand Unification and Planck Scale.  
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D. AMRATH  
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D. BRÖMMEL  
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J. HAMANN  
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 P. TENENBAUM  
 Benchmarking / Crosschecking DFS in the ILC Main Linac.  
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E. GARUTTI

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The MDI Section in the DCR.

ILC software: where are we?

K. BUESSER

Update on MDI Issues for LDC.

B. WARMBEIN

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**ALCPG 2007, Batavia/USA (10/2007)**

T. BEHNKE

Software Developments for the ILC MOKKA– MALRIN.

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R. DIENER

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F. SEFKOW  
Scintillator HCAL directions.

B. WARMBEIN  
ILC communicator resources for the physics and detector community.

**DPG 2007, Heidelberg/DE (03/2007)**

R. DIENER  
Untersuchung von Rekonstruktionsmethoden für eine GEM-basierte Zeit-Projektions-Kammer (TPC).

L. HALLERMANN  
Auflösungsstudien an einem TPC Prototypen.

CH. HELEBRANT  
Entwicklung und Test von Komponenten fuer ILC-Polarimeter.

D. KÄFER  
Polarimetrie am ILC.

P. SCHADE  
Der Feldkäfig eines großen TPC Prototyps.

O. SCHÄFER  
Entwicklung eines Auslesesystems für die Large Prototype TPC des ILC mit Zeit/ Digitalwandlern.

A. VOGEL  
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N. WATTIMENA  
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**Erice Summerschool, Erice/Sicilia (08/2007)**

P. SCHADE  
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A. VOGEL  
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N. WATTIMENA  
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T. BEHNKE  
Summary Talk.  
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A. VOGEL  
ILC Studies Using the Grid.

Getting Ready for Background Simulations.

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R. AMIRIKAS  
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H.U. MARTYN  
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M. REINECKE  
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## Standort Zeuthen

### Standort Zeuthen

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