

# Veröffentlichungen und Vorträge



## DESY-Kolloquien

- K. DANZMANN (Garching/D und Hannover/D)  
Gravitational Wave Detectors on Earth and in the Heaven.  
21.01.1999
- I. SCHLICHTING (Hamburg/D)  
Structure Determination of Shortlived Species by Crystallography.  
04.02.1999
- K. MÖNIG (Hamburg/D)  
What Have We Learned from LEP1? Precision Tests of the Standard Model.  
15.04.1999
- A. FAESSLER (Tübingen/D)  
Neutrino Oscillations, Double  $\beta$ -Decay and Supersymmetry.  
29.04.1999
- G. ESKA (Bayreuth/D)  
Earth Rotation Detectors – Impact of Low Temperature Physics to Precision Gyroscopes.  
10.06.1999
- E. FIORINI (Mailand/I)  
Neutrino Mass in Physics and Astrophysics.  
28.10.1999
- P. VETTIGER (Zürich/CH)  
The Millipede – More than 1000 Tips for Future Scanning Probe Storage Application.  
25.11.1999
- H. RECHENBERG (München/D)  
100 Years of Weak Interactions 1899–1999.  
09.12.1999

## Vorträge – Innerbetriebliche Fortbildung

- W. KRECHLOK (Hamburg/D)  
WINDOWS NT bei DESY.  
13.01.99
- J. BIENLEIN (Hamburg/D)  
Mexiko – einst und heute: ein Reisebericht.  
20.01.99
- H. DE WAARD (Groningen/NL)  
Magnetische Bakterien.  
27.01.99
- C. SPIERING (Zeuthen/D)  
Haben Neutrinos eine Masse?  
03.02.99
- H. PIETSCHMANN (Wien/A)  
Die Schicksals-Sinfonie Beethovens – zur Entstehungsgeschichte des 1. Satzes.  
10.02.99

- H. VON DER SCHMITT (Hamburg/D)  
Organisation und Technologie großer Telekommunikationsnetze.  
17.02.99
- E. LOHRMANN (Hamburg/D)  
Statistik im täglichen Leben.  
24.02.99
- G. BEUERMANN (Göttingen/D)  
Lichtenbergische und andere Figuren – Zu Lichtenbergs physikalischen Experimenten.  
10.03.99
- W. SCHÜMANN (Borstel Hohenraden/D)  
Der Ökohof – Aufgaben, Betrieb, Produkte.  
17.03.99
- G. FLÜGGE (Hamburg/D)  
Fahrrinnen-Vertiefung der Unter- und Außenelbe.  
31.03.99
- U. JOOST (Darmstadt/D)  
„Der gute Kopf leuchtet überall hervor“ – Goethe und Lichtenberg.  
14.04.99
- H.P. Neitzke (Hannover/D)  
Beeinflussung biologischer Systeme durch elektrische, magnetische und elektromagnetische Felder.  
21.04.99
- G. KNIES (Hamburg/D)  
Wie kann man mit regenerativen Energien die Stromerzeugung aus Kohle und Atom ablösen?  
28.04.99
- E.W. OTTEN (Mainz/D)  
Polarisiertes  $^3\text{He}$  als Instrument physikalischer Grundlagenforschung und medizinischer Anwendung.  
05.05.99
- R. TSCHEUSCHNER (Hamburg/D)  
Physik der Melodie – Wege und Irrwege in der Zufallsmusik.  
19.05.99
- J. ROSSBACH (Hamburg/D)  
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26.05.99
- R. BRINKMANN (Hamburg/D)  
Neues von der Planung des Linear Colliders TESLA.  
02.06.99
- C.W. RÖHRIG (Hamburg/D)  
Ein Blick über die Schulter des Künstlers – Malvorführung und Erläuterung von speziellen Techniken.  
09.06.99
- H.J. WILKE (Dresden/D)  
Wie der Mensch den Weg zur Elektrizität fand – Ein Experimentaltvortrag mit historischen Experimenten.  
23.06.99
- H. WOEHL (Freiburg/D)  
Von der Sonnenfinsternis zur Sonnenphysik.  
30.06.99

S. WOLFF (München/D)  
LISE MEITNER – Wien, Berlin und Emigration – Aus dem Leben einer außergewöhnlichen Physikerin.  
15.09.99

H. VON DER SCHMITT (Hamburg/D)  
Was geschieht bei DESY am 1.1.2000?  
22.09.99

F. BOSCH (Darmstadt/D)  
Unser Blauer Planet: die „99 Zufälle“, durch die wir leben.  
13.10.99

P. WALOSCHEK (Hamburg/D)  
Materie aus Quarks und Elektronen – einfach dargestellt.  
20.10.99

Kräfte und Umwandlungen der Teilchen.  
27.10.99

D. STÖFFLER (Berlin/D)  
Interplanetare Kollisionen und die Evolution der Erde.  
03.11.99

H. WENNINGER (Genf/CH)  
Teilchenphysik in Europa – Trends für das nächste Jahrtausend.  
17.11.99

S. REFSDAL (Hamburg/D)  
Gravitationslinsen und ihre Bedeutung für die Kosmologie.  
24.11.99

H. RENSMEYER (Hamburg/D)  
Geldpolitik der Europäischen Zentralbank – Konzeption, Instrumente, erste Erfahrungen.  
01.12.99

H.W. ROESKY (Göttingen/D)  
Weihnachtsveranstaltung „Chemische Kabinettstücke“.  
15.12.99

## Vorträge

R. KLANNER

The ZEUS Microvertex Detector.  
Proc. of the Int. Europhys. Conf. on High Energy Physics (EPS-HEP'99), Tampere/FIN (1999)

Status of the HERA Experiments.  
ICFA-Workshop, Batavia/USA (1999)

Silicon Detector Developments at Hamburg.  
Univ. Siegen/D (1999)

D. TRINES

Status of the R&D for TESLA.  
Epiphany Conf. 99, Cracow/PL (1999)

Experience of Superconducting Cavity Operation in the TESLA Test Facility.  
IEEE Part. Accel. Conf. (PAC'99), New York/USA (1999)

Status of the R&D on TESLA.  
ICFA Seminar on Future Perspectives in High Energy Physics, Batavia/USA (1999)

TESLA Project Overview.  
Workshop on RF Superconductivity, Santa Fe/USA (1999)  
TTF-Kollaborationstreffen, Argonne/USA (1999)

A. WAGNER

TESLA  $e^+e^-$  Linear Collider und Röntgenlaser.  
DPG Frühjahrstagung Teilchenphysik, Heidelberg/D (1999)

TESLA – Status and Perspectives.  
ECFA-DESY Linear Collider Study, Oxford/GB (1999)

The Future of HERA and TESLA.  
Proc. of the 7th Int. Workshop on Deep Inelastic Scattering and QCD (DIS'99), Zeuthen/D (1999)

Das TESLA-Projekt.  
Kolloquiumsvorträge, Univ. Siegen/D (1999)  
Univ. Gießen/D (1999)  
Univ. Freiburg/D (1999)  
Univ. Bonn/D (1999)  
GKSS Geesthacht/D (1999)

The TESLA Project.  
NIKHEF Amsterdam/NL (1999)  
Erice Summer School, Erice/I (1999)

Physics with the TESLA Linear Collider.  
2nd Int. Conf. on Physics Beyond the Standard Model, Schloss Ringberg, Tegernsee/D (1999)

Research at DESY.  
Univ. Nac. Auton. de Mexico City/MEX (1999)  
Univ. Auton. de San Luis Potosi/MEX (1999)

Particle Physics at DESY.  
Research with Synchrotron Radiation at DESY.  
CINVESTAV, Mexico City/MEX (1999)

News from DESY.  
ECFA Meeting, CERN Genf/CH (1999)

H. VON DER SCHMITT

Management von Experimentdaten mit neuen Technologien.  
Univ. Bonn/D (1999)

## F-Bereich

### H1

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#### Veröffentlichungen

- H1 KOLLABORATION, C. ADLOFF et al.  
Elastic Electroproduction of  $\rho$  Mesons at HERA.  
Eur. Phys. J. C13 (2000) 371 und DESY 99-010
- Charmonium Production in Deep Inelastic Scattering at HERA.  
Eur. Phys. J. C10 (1999) 373 und DESY 99-026, hep-ex/9903008
- A Search for Leptoquark Bosons and Lepton Flavour Violation in Positron-Proton Collisions at HERA.  
Eur. Phys. J. C11 (1999) 447 und DESY 99-081, hep-ex/9907002
- Measurements of Transverse Energy Flow in Deep-Inelastic Scattering at HERA.  
Eur. Phys. J. C12 (2000) 595 und DESY 99-091, hep-ex/9907027
- Forward  $\pi^0$ -Meson Production at HERA.  
Phys. Lett. B462 (1999) 440 und DESY 99-094, hep-ex/9907030
- Measurement of Neutral and Charged Current Cross-Sections in Positron-Proton Collisions at Large Momentum Transfers.  
DESY 99-107, hep-ex/9908059, zur Veröffentl. in Eur. Phys. J. C
- Measurement of Open Beauty Production at HERA.  
Phys. Lett. B467 (1999) 156 und DESY 99-126, hep-ex/9909029
- Investigation of Power Corrections to Event Shape Variables Measured in Deep-Inelastic Scatterings.  
DESY 99-193, hep-ex/9912052, zur Veröffentl. in Eur. Phys. J. C

#### Veröffentlichte Vorträge

##### **Proc. of the Int. Conf. on the Structure and Interactions of the Photon (PHOTON'99), Freiburg/D (1999)**

- B. ANDRIEU  
Dijet Cross Sections in Photoproduction and the Gluon Density in the Photon.
- K. DAUM  
Open Charm and Beauty Production at HERA.
- L. GÖRLICH  
Forward  $\pi^0$  Production in Deep Inelastic Scattering at HERA.
- N. GOGITIDZE  
Measurements of Dijet Cross-Section at Low  $Q^2$  and the Extraction of an Effective Parton Density for the Virtual Photon.
- B. NAROSKA  
Inelastic Production of Charmonium in Photoproduction at HERA.
- J. OLSSON  
Observation of Events with an Isolated High Energy Lepton and Missing Transverse Momentum.

P. THOMPSON  
Production of  $D^{*+}$  Mesons in Deep-Inelastic Diffractive Interactions at HERA.

A. VALKAROVA  
Study of the Photon Remnant in Resolved Photon Interactions at HERA.

B. WAUGH  
Elastic/Diffractive Vector Meson Production in Photoproduction.

##### **Proc. of the Int. Europhys. Conf. on High Energy Physics (HEP'99), Tampere/FIN (1999)**

C. BERGER  
Event Shapes, Jet Structure at HERA.

G. BERNARDI  
High  $Q^2$  NC, CC Cross Sections.

T. CARLI  
Di-Jets at HERA from Deep Inelastic Scattering.

V. EFREMENKO  
Structure of Virtual Photons.

E. ELSÉN  
Tests of SM at High  $Q^2/E_1^2$ .

L. GÖRLICH  
Forward  $\pi^0$  Production in Deep Inelastic Scattering at HERA.

P. MARAGE  
Hadronic Structure, Low  $x$  Physics and Diffraction.

P. MERKEL  
Diffractive Vector Meson Production at HERA.

E. PEREZ  
Search for Exotics at HERA: Present Results and Future Prospects.

D. REYNA  
New Results in ep Hadronic Final States from Diffractive Scattering and Leading Baryon Production.

R. WALLNY  
 $F_2/F_L$  at Medium  $Q^2$ .

M. WOBISCH  
New Results in the Analysis of the Hadronization Process in Electron-Proton Collisions.

E. DE WOLF  
New Results in the Analysis of the Hadronization Process in Electron-Proton Collisions.

##### **Proc. of the 7th Int. Workshop on Deep Inelastic Scattering (DIS'99), Zeuthen/D (1999) (Nucl. Phys. B, Proc. Suppl. 79 (1999))**

C. ADLOFF  
 $F_2$  Charm Measurement.

V. ARKADOV  
 $F_2/F_L$  at very Low  $x$ .

- T. CARLI  
Latest Highlights from the H1 Collaboration.
- B. CLERBAUX  
Elastic  $\rho$  Meson Production at HERA.
- B. COX  
High- $t$  Diffraction at HERA.
- J. CVACH  
Real and Virtual Photon Structure from Dijet Events.
- A. DROUTSKOI  
Comparison of Elastic and Proton Dissociative  $\rho$  Meson Electroproduction from H1.
- R. GERHARDS  
 $D^*$  Meson Production by Real and Virtual Photons.
- S. HENGSTMANN  
Diffractive Open Charm Production in Deep Inelastic Scattering at H1.
- H. JUNG  
CCFM Prediction for  $F_2$  and Forward Jets at HERA.
- D. KANT  
Fragmentation Functions and Rapidity Spectra in the Breit Frame at H1.
- M. KAPISHIN  
Leading Baryon Production in Deep Inelastic Scattering at H1.
- P. MERKEL  
Diffractive Vector Meson Production at HERA.
- P.O. MEYER  
Internal Jet Structure in Dijet Production in Deep Inelastic Scattering.
- S. MOHRDIECK  
Inclusive Electroproduction of  $J/\psi$  Mesons at HERA.
- P. NEWMAN  
H1 Measurements of Open  $b$  Production.
- K. RABBERTZ  
Event Shapes and Power Corrections in ep Deep Inelastic Scattering.
- B. REISERT  
Cross-Section Measurements at High  $Q^2$ .
- C. ROYON  
Inclusive Diffraction.
- J. SCHEINS  
Search for Contact Interactions and Leptoquarks at HERA.
- F.P. SCHILLING  
Diffractive Dijet Production at HERA.
- H.C. SCHULTZ-COULON  
Search for Exotic Phenomena at H1.
- J. STIEWE  
Production of Neutral Pions and Antideuterons, and Observation of Proton-Antiproton Asymmetry in the Photon Hemisphere at HERA.
- M. SWART  
Hadron Production and QCD in Deep Inelastic Scattering.
- N. TOBIEN  
Measurement of Differential 2-Jet Rates in Deep Inelastic Scattering at High  $Q^2$ .
- K. WACKER  
Transverse Energy Flow in Deep Inelastic Scattering.
- M. WEBER  
Progress and Problems in QCD.
- T. WENGLER  
Forward  $\pi^0$  Production at HERA.
- M. WOBISCH  
Direct Determination of the Gluon Density of the Proton Jet Cross Sections in Deep Inelastic Scattering.
- J. ZACEK  
Structure Function Measurements and QCD Analysis at Medium  $Q^2$ .
- T. BENISCH  
Neutral and Charged Current Cross Sections at High  $Q^2$ .  
Proc. of the Workshop on the Structure of the Nucleon (NUCLEON'99), Frascati/I (1999)
- A. BOUNIATIAN  
Hadronic Final States in Diffraction at HERA.  
Proc. of the Int. Conf. and 8th Blois Workshop on Elastic and Diffractive Scattering (EDS'99), Protvino/RUS(1999)
- V. BRISSON  
Electroweak Physics at HERA.  
Proc. of the 17th Int. Workshop on Weak Interactions and Neutrinos (WIN'99), Cape Town/ZA(1999)
- B. CLERBAUX  
Hard Diffraction in Vector Meson Production at HERA.  
Proc. of the 34th Rencontres de Moriond: QCD and Hadronic Interactions, Les Arcs/F (1999)
- G. COZZIKA  
Searches for Events with Isolated Leptons and Large Missing Transverse Momentum and for Excited Fermions at HERA.  
Proc. of the 13th Topical Conf. on Hadron Collider Physics, Mumbai/IND (1999)
- R. EICHLER  
Flavour Violation in Hadron Physics.  
Proc. of the 8th Int. Conf. on Hadron Spectroscopy (Hadron'99), Beijing/VRC (1999)
- E. ELSEN  
Experimental Challenges at HERA. (Lecture Series)  
Proc. of the 7th Mexican Workshop on Particles and Fields, Merida/MEX (1999)
- T. HADIG  
Inclusive Hadron Production and Dijets.  
Proc. of the 19th Int. Symposium on Multiparticle Dynamics (ISMD'99), Providence/USA (1999)

L. JANAUSCHEK

Artificial Neural Networks as a Second Level Trigger at the H1 Experiment at HERA – Performance Analysis and Physics Results. Proc. of the 6th Int. Workshop on New Computing Techniques in Physics Research (AIHENP'99), Crete/GR (1999)

M. KLEIN

Structure Functions. Proc. of the 19th Int. Sympos. on Lepton and Photon Interactions at High Energies (LP'99), Stanford/USA (1999)

R. LAHMANN

The Structure of the Proton. Proc. of the 14th Int. Workshop on High Energy Physics and Quantum Field Theory (QFHEP'99), Moscow/RUS (1999)

T. MCMAHON

Studies of Real and Virtual Photon Structure at HERA. Proc. of the 34th Rencontres de Moriond: QCD and Hadronic Interactions, Les Arcs/F (1999)

R. MARACEK

Upgrade of the H1 LAr Calorimeter Trigger – Jet Trigger. Proc. of the 8th Int. Conf. on Calorimetry in High Energy Physics (CALOR'99), Lisbon/P (1999)

A. MEHTA

Outlook for HERA. Proc. of the 13th Topical Conf. on Hadron Collider Physics, Mumbai/IND (1999)

D. MILSTEAD

Fragmentation and Power Corrections. Proc. of the 19th Int. Symposium on Multiparticle Dynamics (ISMD'99), Providence/USA (1999)

J. NAUMANN

H1 LAr Energy Scale Progress. Proc. of the 8th Int. Conf. on Calorimetry in High Energy Physics (CALOR'99), Lisbon/P (1999)

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The Proton Structure Function at Medium  $Q^2$  at HERA. Proc. of the 13th Topical Conf. on Hadron Collider Physics, Mumbai/IND (1999)

C. NIEBUHR

Searches for New Physics at HERA. Proc. of the 34th Rencontres de Moriond: QCD and Hadronic Interactions, Les Arcs/F (1999)

T. NUNNEMANN

Inclusive Diffraction and Leading Baryon Production at HERA. Proc. of the 13th Topical Conf. on Hadron Collider Physics, Mumbai/IND (1999)

J. OLSSON

Diffraction in Exclusive Processes at HERA. Proc. of the Int. Conf. and 8th Blois Workshop on Elastic and Diffractive Scattering (EDS'99), Protvino/RUS (1999)

E. RIZVI

NC and CC at High  $Q^2$ . Proc. of the 13th Topical Conf. on Hadron Collider Physics, Mumbai/IND (1999)

A. DEROECK

Photon Structure. Proc. of the 13th Topical Conf. on Hadron Collider Physics, Mumbai/IND (1999)

R. ROSTOVTSEV

Recent Results from HERA. Proc. of the 27th ITEP Winter School of Physics, Moscow/RUS (1999)

F. SEFKOW

ep Physics with Heavy Flavours. Proc. of the 8th Int. Sympos. on Heavy Flavor Physics, Southampton/GB (1999)

V. SHEKELYAN

NC and CC at High  $Q^2$  in ep Interactions. Proc. of the 34th Rencontres de Moriond: Electroweak Interactions and Unified Theories, Les Arcs/F (1999)

A. SPECKA

BSM Physics at HERA. Proc. of the Winter School on Electroweak Interactions, Lake Louise/CAN (1999)

B. STELLA

ep Cross Sections and Proton Structure Functions at HERA. Proc. of the 13th Rencontres de Physique de la Vallée d'Aoste, La Thuile/I (1999)

A. STELLBERGER

The H1 VLQ-Spectrometer – Track-Cluster Matching in the Sub-mm Region. Proc. of the 8th Int. Conf. on Calorimetry in High Energy Physics (CALOR'99), Lisbon/P (1999)

M. SWART

Hadron Production and QCD in Deep Inelastic Scattering. Proc. of the 34th Rencontres de Moriond: QCD and Hadronic Interactions, Les Arcs/F (1999)

C. VALLEE

The W Cross Section and Lepton Production with Missing  $P_T$  at HERA. Proc. of the Winter School on Electroweak Interactions, Lake Louise/CAN (1999)

M. WOBISCH

Hadron Production in pp, ep,  $\gamma p$ . Proc. of the 19th Int. Symposium on Multiparticle Dynamics (ISMD'99), Providence/USA (1999)

Z. ZHANG

New Structure Function Results at Low x and High  $Q^2$  from HERA. Proc. of the 8th Int. Conf. on Hadron Spectroscopy (Hadron'99), Beijing/VRC (1999)

A. ZHOKIN

Structure Functions – Low x, High y, Low  $Q^2$ . Proc. of the 19th Int. Symposium on Multiparticle Dynamics (ISMD'99), Providence/USA (1999)

Vorträge

**DPG Frühjahrstagung Teilchenphysik, Heidelberg/D (1999)**

W. ARKADOV

Measurement of the Deep Inelastic ep Scattering Cross Section Using the Backward Silicon Tracker of the H1 Experiment at HERA.

S. CARON

Studien zur Messung von Jetverteilungen in der tiefinelastischen Elektron-Proton Streuung bei H1.

D. ECKSTEIN

Bestimmung der Proton-Strukturfunktion  $F_L$  mit dem H1-Detektor bei HERA.

T. HADIG

Analysen zur perturbativen QCD bei H1.

B. HEINEMANN

Wirkungsquerschnitte des geladenen und neutralen Stroms bei hohen  $Q^2$  und hohem  $x$  bei HERA.

A. HEISTER

3-Jet Produktion in tiefinelastischer Streuung bei hohem  $Q^2$  im H1 Experiment.

S. HENGSTMANN

Diffraktive Charm-Produktion bei HERA.

O. KARSCHNICK

Nachweis diffraktiv gestreuter Protonen mit dem Vorwärtsprotonenspektrometer bei H1.

O. KAUFMANN

Messung der Partondichten im Photon.

F. KEIL

Eigenschaften des hadronischen Endzustandes tiefinelastischer Streueignisse bei höchsten Impulsüberträgen.

T. KLUGE

Untersuchungen der elastischen QED-Compton-Streuung mit dem VLQ-Spektrometer des H1-Detektors.

T. KUHR

Anwendung des zentralen H1-Silizium-Detektors für die Physik mit schweren Quarks.

V. LENDERMANN

Die Messung der Photonstrukturfunktion  $F_2$  in ep-Streuung.

H. MAHLKE-KRÜGER

Untersuchung von protonelastischen Ereignissen aus Photoproduktion.

P.O. MEYER

Messungen von Elektron-Proton-Streuprozessen mit dem VLQ-Spektrometer des H1-Detektors.

R. MOHR

Messung von Multijet-Ereignissen in tiefinelastischer Streuung (niedriges  $Q^2$ ) bei HERA.

S. MOHRDIECK

Produktion von  $J/\Psi$ -Mesonen in tiefinelastischer Streuung mit dem H1-Detektor am HERA-Speicherring.

J. NAUMANN

In situ-Kalibration des H1-Flüssig-Argon-Kalorimeters im Vergleich mit frühen Teststrahlungsmessungen.

T. NUNNEMANN

Messung der Produktion von vorwärts gestreuten Neutronen in tiefinelastischer ep-Streuung.

J. RAUSCHENBERGER

Anwendung von Neuronalen Netzwerken in der Selektion von Ereignissen des geladenen Stromes bei H1.

B. REISERT

Vom Low-Noise-Upgrade zum Digitalen Jettrigger: Entwicklung des Flüssig-Argon-Kalorimeter-Triggers bei H1.

F.P. SCHILLING

Direkte Messung der Gluondichte im Pomeron mit diffraktiven 2Jet-Ereignissen bei H1.

D. SCHMIDT

Identifikation von niederenergetischen Zerfallselektronen von  $J/\Psi$ -Mesonen am H1-Detektor bei HERA.

T. SCHÖRNER

Entwicklung eines neuartigen Kalorimeter-Triggers für das H1-Experiment.

Messung inklusiver Jet-Wirkungsquerschnitte bei HERA.

R. STAMEN

Der Topologische Trigger des H1-Experiments.

N. TOBIEN

Parameteroptimierung in Monte-Carlo-Modellen zur Beschreibung des hadronischen Endzustandes in tiefinelastischer Streuung.

S. UDLUFT

Exklusive Produktion von  $\phi$ -Mesonen in ep-Streuung.

R. WALLNY

Messung des tiefinelastischen Wirkungsquerschnitts bei H1 und die Unterscheidung der Polarisationsbeiträge des virtuellen Photons.

M. WEBER

Neues zur Struktur von Proton und Photon.

T. WENGLER

Auf und ab die Parton Leiter bei HERA.

L. WILDEN

Produktion von  $J/\Psi$ -Mesonen in sehr inelastischen Prozessen bei HERA.

**Ringberg Workshop on New Results from HERA, Tegernsee/D (1999)**

T. GREENSHAW

Measurements of Jet and Single Hadron Production at Low  $x$  and  $W^2$  (Forward Jets, Resolved Photons, BFKL).



- L. JOENSSON  
Measurements of Jet Production in Deep Inelastic Scattering (Gluon Distribution,  $\alpha_s$ ).
- O. KAUFMANN  
Experimental Results on Real and Virtual Photon Structure.
- C. KIESLING  
Measurements of Inelastic Heavy Quarkonium Production.
- J. MEYER  
HERA Events with High  $p_T$  Isolated Leptons.
- D. PITZL  
Measurements of Open Bottom Production.
- F. ZOMER  
Measurements of  $F_2$  (Parton Distributions,  $x_u$ ,  $x_d$ ,  $\alpha_s$ , Electro-weak Parameters).
- W. BARTEL  
Measurement of the Proton Structure at HERA.  
Univ. of Auckland/NZ (1999)
- C. BEIER  
NC and CC Cross Sections at High  $Q^2$ , Forward Production at HERA.  
6th Topical Seminar on Neutrino and Astroparticle Physics, San Miniato/I (1999)
- B. CLERBAUX  
Elastic Production of Vector Mesons at HERA: Study of the Scale of the Interaction and Measurement of the Helicity Amplitudes.  
Workshop on Small  $x$  Physics, Tel Aviv/IL (1999)
- T. EBERT  
Virtual Photon Structure in H1.  
Int. Sympos. on Phenomenology for the 3rd Millennium (PHENO'99), Madison/USA (1999)
- E. ELSSEN  
Die starke Wechselwirkung aufgelöst im HERA Mikroskop.  
Kolloquiumsvortrag, Wuppertal/D (1999)
- J. FERENCSEI  
Proton Structure.  
11th Rencontres de Blois: Frontiers of Matter, Blois/F (1999)
- C. GRAB  
B Production at HERA.  
3rd Int. Conf. on  $b$  Physics and CP Violation (BCONF'99), Taipei/RC (1999)
- L. JANAUSCHEK  
Neuronale Netze als zweite Triggerstufe für das H1 Experiment bei HERA am Beispiel der Photoproduktion von  $J/\psi$ -Vektormesonen.  
Maria Laach/D (1999)
- Produktion von Vektormesonen in ep-Kollisionen bei HERA – Messung der Gluondichte des Protons.  
Univ. München/D (1999)
- S. KERMICHE  
Beyond the Standard Model in ep Collisions.  
14th Int. Workshop on High Energy Physics and Quantum Field Theory (QFTHEP'99), Moscow/RUS (1999)
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Int. Sympos. on Visions of Polymer Science, Akron/USA (1999)

APS Centennial Meeting, Sympos. on Biomolecules and Supramolecular Materials, Atlanta/USA (1999)

HP/HT-Seminar on Properties of Materials at High Pressures and Temperatures, Bayreuth/D (1999)

Beijing Int. Conf. on Photoelectron Spectroscopy, Beijing/VRC (1999)

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David A. Shirley Sympos. on Spectroscopy and the Structure of Matter, Berkeley/USA (1999)

37th IUPAC Congress – 27th GDCh General Meeting, Berlin/D (1999)

11th Int. Sympos. on Spectroscopy in Theory and Practice, Bled/SLO (1999)

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XIth Int. Conf. on Small-Angle Scattering (SAS'99), Brookhaven/USA (1999)

2nd Int. SLS Workshop on Synchrotron Radiation, Brunnen/CH (1999)

Gen. Meeting of the Belgian Phys. Soc., Brussels/B (1999)

Ann. Meeting of Am. Crystallographic Assoc., Buffalo/USA (1999)

Rideal Conf. on Chemisorption and Catalysis, Cardiff/UK (1999)

ESF Conf. on Fluid/Solid/ Interfaces, Castelvecchio Pascoli/I (1999)

12th Int. Conf. on Solid State Ionics (ISSI), Chalkidiki/GR (1999)

Faraday Discussion Meeting No. 112: Physical Chemistry in the Mesoscopic Regime, Chester/GB (1999)

18th Int. Conf. on X-Ray and Inner-Shell Processes (X-99), Chicago/USA (1999)

X-Ray Dichroism Workshop, 18th Int. Conf. on X-Ray and Inner-Shell Processes Satellite Meeting, Chicago/USA (1999)

Conf. on Thermoplastic Elastomers, Chicago/USA (1999)

CAP Meeting, Clearwater Beach, Florida/USA (1999)

East Europ. Meeting on Res. Opportunities at Synchrotron Radiation and Free Electron Laser Sources, Cracow-Przegorzaly/PL (1999)

13th Int. Sympos. on Boron, Borides and Rel. Compounds, Dinard/F (1999)

14th Int. Conf. on Ion Beam Analysis (IBA-14), Dresden/D (1999)

- Int. Sympos. on Metastable Mechanically Alloyed and Nanocrystalline Materials, Dresden/D (1999)
- IWF, Dresden/D (1999)
- Trilateral Seminar Dresden-Vienna-Wroclaw on Anomalous Phenomena in d- and f-Electron Systems, Duszynki Zdroj/PL (1999)
- Satellite Conf. of Australian Soc. for Biochemistry and Molecular Biology, Enzyme Structure and Function, Fraser Island/AUS (1999)
- Int. Conf. on the Appl. of the Mößbauer Effect (ICAME'99), Garmisch-Partenkirchen/D (1999)
- 13th Int. Union of Crystallography Congress and Gen. Assembly, Glasgow/GB (1999)
- 7th Int. Conf. on the Formation of Semiconductor Interfaces (ICFSI-7), Gothenburg/S (1999)
- Frontiers in SAXS and SANS, Grenoble/F (1999)
- HERCULES Session 9, CNRS, Grenoble/F (1999)
- 21st Int. Free Electron Laser Conf. and 6th FEL Applications Workshop, Hamburg/D (1999)
- VUV FEL User Workshop, Hamburg/D (1999)
- Int. Sympos. on Atomic Physics, Hanoi/VN (1999)
- 22nd Int. Conf. on Low Temperature Physics (LT22), Helsinki/FIN (1999)
- Europ. Conf. on Liquid Crystals (ECLC99), Hersonissos, Crete/GR (1999)
- Int. Workshop on Applications and Morphology of Vicinal Surface, Castle Wohldenberg, Hildesheim/D (1999)
- 1st Workshop on Advanced Material: Nanostructured Systems, HKUST, Hong Kong/VRC (1999)
- 196th Meeting of the Electrochemical Soc., Honolulu/USA (1999)
- Int. Conf. on High Pressure Sci. and Technol. (AIRAPT-17), Honolulu/USA (1999)
- 12th Int. Conf. on Dynamical Processes in Excited States of Solids (DPC'99), Humacao/USA (1999)
- 14th Int. Sympos. on Environmental Biogeochemistry, Huntsville/CAN (1999)
- Int. Conf. on Concepts in Electron Correlation, Hvar/Croatia (1999)
- 18th Int. School on Physics of Semiconducting Compounds, Jaszowiec/PL (1999)
- 10th Int. Conf. on Radiation Effects in Insulators (REI-10), Jena/D (1999)
- 6th Europ. Workshop on Modern Developments and Appl. in Microbeam Analysis, Konstanz/D (1999)
- CMMP'99, Leicester/GB (1999)
- Euromembrane 99, Leuven/B (1999)
- Meeting of the Contact Group for Synchrotron Radiation of the NFSR, Liège/B (1999)
- 1st Slovenia-Korea Workshop on Adv. Materials, Ljubljana/SLO (1999)
- 7th Int. Conf. on Crystal Chemistry of Intermetallic Compounds, Lviv/UA (1999)
- 7th Europ. Conf. on Solid State Chemistry (ECSSC'99), Madrid/E (1999)
- EU-Workshop on Catalysis from First Principles, Magleas/DK (1999)
- 6th Europ. Sympos. on Polymer Blends, Mainz/D (1999)
- Int. Discussion Meeting on Adv. Methods in Polymer Characterization, Mainz/D (1999)
- 31st EGAS Conf., Marseille/F (1999)
- 27th Ann. Meeting of the Europ. High Pressure Research Group (EHPRG), Montpellier/F (1999)
- 5th Int. Conf. on Inorganic Scintillators and their Applications, (SCINT-99), Moscow/RUS (1999)
- EUROMAT 99, München/D (1999)
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- Meeting of the Contact Group for Surface Science of the NFSR, Namur/B (1999)
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- 6th Int. Conf. on Surface X-Ray and Neutron Scattering (SXNS6), Noordwijkerhout/NL (1999)
- 2nd Int. Workshop on Current Problems in Complex Fluids, Oaxaca/MEX (1999)
- Photo-Dynamics and Reaction Dynamics of Molecules, Okasaki/J (1999)
- Int. Conf. on Luminescence and Optical Spectroscopy of Condensed Matter (ICL'99), Osaka/J (1999)
- Gordon Res. Conf. on X-Ray Physics, Plymouth/USA (1999)
- 14th Summer School on Coordination Chemistry, Polanica-Zdroj/PL (1999)
- 3rd Int. Sympos. on Electrocatalysis, Portorose/SLO (1999)
- EPS Conf. on Macromolecular Physics, Potsdam/D (1999)
- Europ. Conf. on Physics of Magnetism, Poznan/PL (1999)
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- Glass Science and Technology for the 21st Century, Prague/CZ (1999)
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46th AVS Int. Sympos. and Topical Conf., Seattle/USA (1999)

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4th Europ. Conf. on Appl. Superconductivity (EUCAS'99), Sitges, Barcelona/E (1999)

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11th German Zeolithe Meeting, Stuttgart/D (1999)

13th Int. School of Condensed Matter Physics: Physics (and Chemistry) of Modern Materials, Suprasl/PL (1999)

10th Int. Conf. on Radiation Physics and Chemistry (RPC-10), Tomsk/RUS (1999)

6th Int. Conf. on the Structure of Surfaces (ICSOS-6), Vancouver/CAN (1999)

CeNS Sympos., Venice/I (1999)

18th Europ. Conf. on Surface Sciences (ECOSS-19), Vienna/A (1999)

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### Habilitationen

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A Perspective on the Interplay between the Electronic and Geometric Structure of Surfaces.

Univ. Kiel/D (1999)

B. KOWALSKI

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K.E. AASMUNDTVEIT

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Univ. of Trondheim/N (1999)

K.V. BAUTIN

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T. BÖKER

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O. BUNK

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R. CORPINO

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D. DOBRITZSCH

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F. EBERL

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- B.K. HOSKINS  
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- D. HUPFELD  
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- S. KEITEL  
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- M. KLOSS  
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- H. LADYNSKI  
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- M.K. LEE  
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- S. LEPORATTI  
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- U. LIEPOLD  
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- C. LIU  
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- U. LODE  
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- B. PILLEP  
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- A. PLECH  
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- T. POMPER  
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- P.K. PRANZAS  
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- B. RAAB  
Ursache der magnetooptischen Asymmetrien im Bereich der 3p-Absorptionskante von Eisen.  
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- C. REHM  
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- A.YU. ROMANENKO  
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- P. SCHINDELMANN  
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- J.P. SCHLOMKA  
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- J. STAHN  
Strukturänderungen von GaAs und ZnSe unter dem Einfluss eines äußeren elektrischen Feldes.  
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- Y.I.A. SWILEM  
X-Ray Studies of Fe-Based Amorphous and Nanocrystalline Alloys.  
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- M. TRAVING  
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Univ. Kiel/D (1999)

- U. VOGEL  
Strukturdatengewinnung und 3D-Visualisierungen des menschlichen Hörorgans.  
TU Dresden/D (1999)
- H. WALTER  
Struktur adsorbierter Polyampholytschichten.  
Univ. Mainz/D (1999)
- Diplomarbeiten**
- A. AADNAN  
Untersuchung der Struktur von Glasoberflächen mittels Röntgenstreuung.  
Univ. Kiel/D (1999)
- QINGRUI AN  
Herstellung und Charakterisierung ultradünner Schichten aus Metallkomplexen.  
Univ. München/D (1999)
- J. BRANDT  
Der Einfluss von Nanostrukturen auf die geometrische und elektronische Struktur von metallischen Schichtkristallen.  
Univ. Kiel/D (1999)
- A. BÜHLER  
Simulation eines Offshore Windparks in der Nordsee zur Versorgung einer Großstadt wie Hamburg.  
Univ. Hamburg/D (1999)
- A. DANIEL  
Experimentelle Bestimmung der Elektronendichte von ZnSe.  
Univ. Potsdam/D (1999)
- O. DEGTYAREVA  
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Univ. Paderborn/D (1999)
- J. DUFFY  
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Univ. of Dublin/D (1999)
- A. FOEDE  
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- F. HAASS  
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- R. HENTGES  
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- D. HÖLZLE  
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- M. HUBER  
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- K. HÜBNER  
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- U. MENNICKE  
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- H. MINUTH  
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- C.U. PINNOW  
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- J. RIECHEN  
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Univ. Kiel/D (1999)
- K. RUPPRECHT  
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- D. SCHRUPP  
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Univ. Augsburg/D (1999)
- R. SCHWERTBERGER  
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- M. SIKORA  
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- T. SOYKA  
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- D. SPANKE  
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R. TALLON  
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Univ. of Dublin/IRL (1999)

L. TARCAK  
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G. THORWARTH  
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Univ. Augsburg/D (1999)

## EMBL

Für eine Liste der Veröffentlichungen und Vorträge wird auf den EMBL-Forschungsbericht verwiesen.

## Max-Planck-Gesellschaft

### Veröffentlichungen

T. AUERBACH, M. PIOLETTI, H. AVILA, K. ANAGNOSTOPOULOS, S. WEINSTEIN, F. FRANCESCHI, A. YONATH  
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Structure of Cytochrome c Nitrite Reductase.  
*Nature* 400 (1999) 476

P. FRIEDHOFF, M. VONBERGEN, E.M. MANDELKOW, E. MANDELKOW  
Structure of Tau Protein and Assembly into Paired Helical Filaments.  
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