

# Forschung Hochenergiephysik

## H1-Experiment

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### Veröffentlichungen

H1 KOLLABORATION, C. ADLOFF et al.

Measurement of Beauty Production at HERA Using Events with Muons and Jets.

Eur. Phys. J. C41 (2005) 453 und DESY 05-004, hep-ex/0502010

Measurement of Charm and Beauty Photoproduction at HERA Using  $D^*\mu$  Correlations.

Phys. Lett. B621 (2005) 56 und DESY 05-040, hep-ex/0503038

Measurement of Deeply Virtual Compton Scattering at HERA.

Eur. Phys. J. C44 (2005) 1 und DESY 05-065, hep-ex/0505061

Search for Leptoquark Bosons in ep Collisions at HERA.

Phys. Lett. B629 (2005) 9 und DESY 05-087, hep-ex/0506044

A Determination of Electroweak Parameters at HERA.

DESY 05-093, hep-ex/0507080, zur Veröffentlich. in Phys. Lett. B

Measurement of  $F_2^{cc}$  and  $F_2^{bb}$  at Low  $Q^2$  and  $x$  Using the H1 Vertex Detector at HERA.

Eur. Phys. J. C45 (2006) 23 und DESY 05-110, hep-ex/0507081

Forward Jet Production in Deep Inelastic Scattering at HERA.

DESY 05-135, hep-ex/0508055, zur Veröffentlich. in Eur. Phys. J.

Elastic  $J/\Psi$  Production at HERA.

DESY 05-161, hep-ex/0510016, zur Veröffentlich. in Eur. Phys. J.

Measurement of Event Shape Variables in Deep-Inelastic Scattering at HERA.

DESY 05-225, hep-ex/0512014, zur Veröffentlich. in Eur. Phys. J.

First Measurement of Charged Current Cross Sections at HERA with Longitudinally Polarised Positrons.

DESY 05-249, hep-ex/0512060, zur Veröffentlich. in Phys. Lett. B

### Veröffentlichte Vorträge

**Proc. of the 13th Int. Workshop on Deep Inelastic Scattering (DIS2005), Madison/USA (2005)**

T. ANTHONIS

Multiplicity Structure in Inclusive and Diffractive Deep Inelastic  $e^+p$  Collisions at HERA.

M. BECKINGHAM

Diffractive  $D^{*\pm}$  Meson Production in Deep-Inelastic Scattering at HERA.

O. BEHNKE

New Results from H1.

Measurement of Beauty Production at HERA Using Events with Muons and Jets.

A. BUNYATYAN

Measurement of Dijets with a Leading Neutron in ep Interactions at HERA.

K. DAUM

Analysis of the Anti-Charmed Baryon State at H1.

F. FERENCZI

Measurement of Prompt Photon Cross Sections in Photoproduction at H1.

L. FINKE

Measurement of Beauty and Charm Production at H1 Using Inclusive Lifetime Tagging.

G. FLUCKE

Photoproduction of  $D^*$  Mesons and  $D^*$  Mesons Associated with Jets at HERA.

S. GLAZOV

New Measurement of DVCS Cross Section at HERA.

C. GWILLIAM

Diffractive Photoproduction of  $\rho$  Mesons with large Momentum Transfer at HERA.

K. KIESLING

New Data on Elastic  $J/\Psi$  Production from H1 at HERA.

M. KLEIN

Physics at HERA and Beyond.

T. KLIMKOVICH

Measurement of  $F_2^{cc}$  and  $F_2^{bb}$  at Low and High  $Q^2$  Using the H1 Vertex Detector.

T. KLUGE

Multi Jet Production at High  $Q^2$ .

A. KNUTSSON

Measurement of Forward Jet Production at low  $x$  in DIS.

P. LAYCOCK

H1  $F_2^D$  and Diffractive Charged Current Results.

L. LINDFELD

Search for Leptoquarks and Lepton Flavor Violation at the H1 Experiment.

E. LOBODZINSKA

Measurement of the Proton Structure Function  $F_2$  at Low  $Q^2$  in QED Compton Scattering at HERA.

N. MALDEN

Measurement of Charm and Beauty Photoproduction at HERA Using  $D^*\mu$  Correlations.

M. MARTISIKOVA

Study of Jet Shapes in Charm Photoproduction at HERA.

M. MOZER

Diffractive Dijets in DIS and Photoproduction.

A. NIKIFOROV

Polarisation Dependence of the Total CC  $e^\pm p$  Cross Section.

A. PERIEANU

The Structure of Charm Jets in Deep-Inelastic Scattering.

A. PETRUKHIN

Measurement of the Structure Functions  $F_2(x, Q^2)$  and  $F_L(x, Q^2)$  at Low  $Q^2$ .

B. PORTHEAULT

Determination of Electroweak Parameters at HERA with the H1 Experiment.

C. RISLER

H1 Search for a Narrow Baryonic Resonance Decaying to  $K_S^0 p(\bar{p})$ .

S. RURIKOVA

Charm Fragmentation Fractions and the Charm Fragmentation Function.

A. SCHÖNING

Multi-Lepton Events at H1 and Search for Doubly-Charged Higgs Bosons.

D. SOUTH

SUSY Searches at H1.

C. VEELKEN

Search for Events with Isolated Leptons and Large Missing Transverse Momentum.

**Proc. of the Int. Europhysics Conf. on High Energy Physics (HEP2005), Lisboa/PT (2005)**

O. BEHRENDT

$F_2$  at Low  $Q^2$ .

J. BRACINIK

Charm Fragmentation.

V. CHEKELYAN

Heavy Quarks in DIS,  $F_2^{\text{charm}}$  and  $F_2^{\text{beauty}}$ .

E. DE WOLF

Charged Multiplicities in Inclusive and Diffractive DIS.

A. DUBAK

A General Search for New Phenomena at HERA and a Search for Magnetic Monopoles.

G. FLUCKE

Final State Correlations in Charm Production at HERA.

T. GREENSHAW

Test of the QCD Sector of the SM.

B. NAROSKA

Beauty Production.

C. NIEBUHR

Dijets at Low  $x$  and low  $Q^2$ .

J. OLSSON

Elastic Vector Meson Production and DVCS at HERA.

D. OZEROV

The Charmed Pentaquark.

R. WOLF

$D^*$  Production in Diffractive Processes.

E. SAUVAN

Search for the Doubly Charged Higgs at HERA.

S. SCHMITT

Search for Leptoquarks and Lepton Flavour Violation at HERA.

L. SCHOEFFEL

Inclusive NC and CC Diffraction.

A. SPECKA

Jets and  $\alpha_s$ .

Z. ZHANG

A Determination of Electroweak Parameters at HERA.

**Proc. of the Workshop on Deep Inelastic Scattering, Diffraction and Related Matters (Lowx2005), Sinaia/RO (2005)**

E. DE WOLF

Studies of the Diffractive Final State with the H1 Detector.

C. GWILLIAM

H1 Measurements of Deeply Virtual Compton Scattering and Vector Meson Production.

K. KRÜGER

H1 Measurements of  $F_2$ ,  $F_2^c$  and  $F_2^b$ .

D. TRAYNOR

Studies of the Hadronic Final State with the H1 Detector.

A. VALKAROVA

H1 Measurements of the Structure of Diffraction and Tests of Factorisation.

**Proc. of the HERA-LHC Workshop, DESY Hamburg/DE und CERN Geneva/CH (2004/2005)**

O. BEHNKE

Beauty Production at HERA.

B. COX

Forward Physics at the LHC.

F. EISELE

HERA Collider Physics.

A. GEISER

Using JetWeb to Relate HERA-LHC.  
Outlook on Heavy Flavour Physics at HERA II.  
WG3 - Heavy Quarks Summary.

S. GLAZOV

Precision Limits for the Structure Function Measurements at HERA.  
Averaging of the Structure Functions – Update II.

X. JANSSEN

Prospects for Diffraction at HERA-II with the H1 Very Forward Proton Spectrometer.

H. JUNG

RapGap Development.  
Constraining the Unintegrated Gluon.

M. KAPISHIN

Perspectives for Diffraction at H1.

M. KLEIN

On the Determination and Measurement of the Light Parton Distributions at Low  $x$  at HERA.

V. LENDERMANN

Introduction to Monte Carlo Tools – HZTool.  
Summary of WG5 'MC' Tools.

P. VAN MECHELEN

Generator Study of Diffractive Drell-Yan Production of Lepton Pairs at CMS.

A. B. MEYER

Quarkonium Production, QWG Summary.

P. NEWMAN

HERA Diffractive Structure Function Data and Parton Distributions.  
Prospects for  $F_L^D$  Measurements at HERA-II.

K. PETERS

Investigations of Non-Linear Effects.

P. THOMPSON

Measurement of  $F_2^{cc}$  and  $F_2^{bb}$  at High  $Q^2$  Using the H1 Vertex Detector at HERA.

J. TURNAU

Mutliple Interactions and Forward Jets.

**Proc. of the Ringberg Workshop on New Trends in HERA Physics, Ringberg Castle, Tegernsee/DE (2005)**

O. BEHNKE

Beauty Production at HERA.  
Inclusive Diffraction and DVCS Present Measurements and Prospects.

J. FELTESSE

On a Measurement of the Longitudinal Structure Function  $F_L$  at HERA.

L. GOERLICH

QCD Dynamics from the Forward Hadrons and Jets Measurements.

V. LENDERMANN

Measurements at Low  $Q^2$ .

J. MEYER

Electroweak Measurements at HERA.

E. PEREZ

Beyond the Standard Model Searches at HERA.

D. TRAYNOR

Jet Production at HERA.

**Proc. of the 2nd Hadron Structure and QCD Workshop (HSQCD2005), St. Petersburg/RU (2005)**

N. BERGER

Deeply Virtual Compton Scattering at HERA.

V. DODONOV

Diffraction at HERA.

J. GAYLER

Proton Structure from HERA.  
Experimental Summary.

D. SOUTH  
BSM Searches.

**Proc. of the 35th Int. Symposium in Multiparticle Dynamics (ISMD2005), Kromeriz/CZ (2005)**

B. DELCOURT  
Multiplicity Structure of Inclusive and Diffractive Scattering at HERA.

S. LEVONIAN  
Factorisation and Factorisation Breaking in Diffractive Scattering at HERA.

K. SEDLAK  
Jets in Photoproduction at HERA.

W. YAN  
Energy Flow, Multiplicities at HERA.

**Proc. of the 16th Int. Conf. on the Structure and Interactions of the Photon (PHOTON2005), Warsaw/PL (2005)**

J. GAYLER  
Recent Results in Prompt Photon Production.

C. GRAB  
Beauty Production at HERA.

X. JANSSEN  
Deeply Virtual Compton Scattering and Prompt Photon Production at ZEUS and H1 Experiments.

A. KROPIVNITSKAYA  
Spectroscopy at HERA.

A. B. MEYER  
Heavy Quark Production Overview.

P. THOMPSON  
Heavy Flavour Contribution to the Proton Structure.

A. ASTVATSATOUROV  
The Structure of Diffraction and the Diffractive Hadronic Final State in ep Collisions at HERA.  
Proc. of the 12th High Energy Physics Int. Conf. on Quantum Chromodynamics (QCD2005), Montpellier/FR (2005)

V. BLOBEL  
A New Fast Track-Fit Algorithm Based on Broken Lines.  
Proc. of Statistical Problems in Particle Physics, Astrophysics and Cosmology, (PHYSTAT05), Oxford/UK (2005)

A New Fast Track-Fit Algorithm Based on Broken Lines.  
Software Alignment for Tracking Detectors.  
Proc. of the Workshop on Tracking in High Multiplicity Environments (TIME05), Zürich/CH (2005)

G. BUSCHHORN  
Recent Results from H1.  
Proc. of the Int. Conf. on New Trends in High Energy Physics (Crimea2005), Yalta/UA (2005)

C. DIACONU  
Electroweak Measurements.  
Proc. of the 22nd Int. Symposium on Lepton-Photon Interactions at High Energy (LP2005), Uppsala/SE (2005)

L. FAVART  
Deeply Virtual Compton Scattering and Prompt Photon Production at HERA.  
Proc. of the 11th Int. Conf. on Elastic and Diffractive Scattering (Blois2005), Blois/FR (2005)

P. FLEISCHMANN  
Heavy Flavour Production in High Energy ep Collisions.  
Proc. of the 18th Lake Louise Winter Inst. on Fundamental Interactions, Lake Louise/CA (2005)

M. KAPISHIN  
Inclusive Diffractive DIS at HERA.  
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J. KATZY  
Electroweak Studies and Searches for New Physics at HERA.  
Proc. of the 19th Recontres de Physique de la Vallée d'Aoste (LaThuile2005), La Thuile/IT (2005)

M. KLEIN  
HERA QCD Results, What They Mean for the LHC.  
Proc. of the Hadron Collider Physics Symposium (HCP2005), Les Diablerets/CH (2005)

T. KLUGE  
Studies of Heavy Flavour Production and the Hadronic Final State in High Energy ep Collisions.  
Proc. of the 11th Int. Conf. on Hadron Spectroscopy (Hadron2005), Rio de Janeiro/BR (2005) und hep-ex/0510080

V. LENDERMANN  
Measurement of Proton Structure at HERA.  
Proc. of the 18th Lake Louise Winter Inst. on Fundamental Interactions, Lake Louise/CA (2005)

B. LIST  
Heavy Flavour Production in DIS at HERA.  
Proc. of the 10th Int. Conf. on B-Physics at Hadron Machines (Beauty2005), Assisi/IT (2005)

A. MEHTA

Proton Structure from HERA Measurements.  
Proc. of the Int. Conf. on Particles and Nuclei (PANIC05), Santa Fe/USA (2005)

C. NIEBUHR

Aging Effects in Gas Detectors.  
Proc. of the Workshop on Tracking In High Multiplicity Environments (TIME05), Zürich/CH (2005)

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Hadron Spectroscopy in ep Collisions at HERA.  
Proc. of the 18th Lake Louise Winter Inst. on Fundamental Interactions, Lake Louise/CA (2005)

C. RISLER

Recent Results from H1.  
Proc. of the Cracow Epiphany Conf. on Hadron Spectroscopy, Cracow/PL (2005) (Acta Phys. Polon. B36 (2005) 2283)

S. SCHÄTZL

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Proc. of the 40th Rencontres de Moriond on QCD and High Energy Hadronic Interactions (MoriondQCD2005), La Thuile/IT (2005)

S. SCHMIDT

Spectroscopic Measurements Using the H1 and ZEUS Detectors.  
Proc. of the 40th Rencontres de Moriond on QCD and High Energy Hadronic Interactions (MoriondQCD2005), La Thuile/IT (2005)

C. SCHWANENBERGER

Searches for New Physics in ep Collisions at HERA.  
Proc. of the 40th Rencontres de Moriond on Electroweak Interactions and Unified Theories (MoriondEW2005), La Thuile/IT (2005)

I. TSURIN

Studies of Proton Structure at the HERA ep Collider.  
Proc. of the 12th High Energy Physics Int. Conf. on Quantum Chromodynamics (QCD2005), Montpellier/FR (2005)

J. WAGNER

Charm Production in ep-Collisions.  
Proc. of the 40th Rencontres de Moriond on QCD and High Energy Hadronic Interactions (MoriondQCD2005), La Thuile/IT (2005)

Z. ZHANG

Physics from Polarised ep Scattering at High  $Q^2$ .  
Proc. of the 25th Int. Conf. on Physics in Collision (PIC2005), Prague/CZ (2005)

### Vorträge

#### DPG Frühjahrstagung aller Sektionen, Berlin/DE (2005)

O. BEHNKE

Schwere Quarks bei HERA.

F. BECHTEL

Suche nach Pentaquarks mit Charm bei H1.  
 $x_{Bj}$  und  $Q^2$  in der tief-inelastischen ep-Streuung.

N. BERGER

Performance der zweiten Stufe des schnellen Spurtriggers bei H1.

M.O. BÖNIG

Selektion mit dem schnellen Spurtrigger des H1 Experiments.

A. CHOLEWA

Gluon Transversalimpuls in Streuprozessen bei HERA.

D. DODT

Kalibration der Eingangsdaten des Schnellen Spurtriggers von H1.

M. GÖTTLICH

Rekonstruktion von schweren Quarks mit Hilfe des Silizium-Streifendetektors im Vorwärtsbereich des H1 Detektors.

B. GRELL

Photoproduktion von  $D^*$  Mesonen am ep-Speicherring HERA.

S. HABIB

DIS Cross Section Measurement at HERA-II.

L. JANAU SCHEK

Untersuchung elastisch produzierter  $J/\psi$ -Mesonen in Photoproduktion bis zu höchsten  $\gamma$ -Schwerpunktenergien am H1-Experiment.

A. JUNG

Abschließende Tests der dritten Triggerstufe des H1 Fast Track Triggers.

M. KARBACH

LCG2-basierte Monte-Carlo-Produktion bei H1.

T. KLIMKOVICH

Erzeugung Schwerer Quarks in Tief-Inelastischer Streuung (DIS) bei H1.

K. KRASTEV

Prompt Photon Production at HERA.

J. KRETZSCHMAR

Messung der Protonstruktur mit Siliziumdetektoren bei H1.

- A. LUCACI-TIMOCE  
PTL – A Universal Programmable Trigger Logic for Exploratory Setups at HERA.
- L. MARTI MAGRO  
Multiple Scattering in Heavy Quark Production at HERA.
- J. MERKEL  
Systematische Studien zur Ausrichtung der rückwärtigen Detektoren bei H1.
- M. MOZER  
Diffraktive Multijet-Produktion in tief inelastischer Streuung.
- A. NIKIFOROV  
Measurement of the Neutral Current ep Cross Section Using Longitudinally Polarised Positron Beam at HERA II.
- A. PERIEANU  
Charm Jets in DIS.
- R. PLACAKYTE  
Deep Inelastic Charged Events Currents at HERA II and Their Triggering Using Neural Networks at H1.
- F. ROTHMAIER  
Erzeugung von Multi-Lepton-Ereignissen mit großen Transversalimpulsen bei H1.
- C. SCHWANANBERGER  
Suche nach leichten Gravitinos in Ereignissen mit Photonen und fehlendem Transversalimpuls bei HERA.
- J. SEEHAFFER  
Simulation hadronischer Schauer im Flüssig-Argon Kalorimeter des H1-Experiments.
- M. STEDER  
Identifikation von Myonen im Kalorimeter mit Neuronalen Netzen.
- K. URBAN  
Triggerstudien für die Messung der Protonenstrukturfunktion  $F_2$  bei H1.
- A. VEST  
Suche nach bosonischen Stop Zerfällen mit H1 bei HERA.
- B. VUJICIK  
Triggering of the Charged Current Interactions in ep Collisions at the H1 Experiment.
- R. WEBER  
Diffraktive  $\rho$ -Produktion selektiert mit dem neuen schnellen Spurtrigger von H1.
- C. WERNER  
Multi-Jet-Ereignisse bei niedrigen  $x_B$  und  $Q^2$  in der tief-inelastischen ep-Streuung.
- R. WOLF  
Diffraktive offene Charm-Produktion in tief-inelastischer Streuung und Photoproduktion.
- W. YAN  
Jet Production in DIS.
- T. ZIMMERMANN  
Messung von Resonanzzerfällen  $X \rightarrow K_s^0 K_s^0$  bei HERA.
- G. BRANDT  
Search for Exotic Physics at HERA.  
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- G. CONTRERAS  
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- K. DAUM  
The  $\theta_c$  at H1.  
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- N. GOGITIDZE  
Physics at High  $Q^2$  with Polarized Lepton Beam at HERA.  
4th Particle Physics Workshop (ISLAMABAD2005), Islamabad/PK (2005)
- Electroweak Measurements at HERA.  
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- K. LIPKA  
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E. PEREZ

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H.-C. SCHULTZ-COULON

QCD at HERA.  
Corfu Summer Inst., Korfu/GR (2005)

$e^\pm p$ -Physik mit HERA.

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C. SCHWANENBERGER

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T. SLOAN

Inclusive Reactions.  
From Colliders to Cosmic Rays (C2CR2005), Prague/CZ (2005)

C. WISSING

Performance of the H1 Fast Track Trigger Operation and  
Commissioning Results.  
IEEE-NPSS Conf. 2005, Stockholm/SE

## Habilitationen

O. BEHNKE

Production of Charm and Beauty Quarks at HERA.  
Univ. Heidelberg/DE (2005)

A.B. MEYER

Heavy Quark Production at HERA.  
Univ. Hamburg/DE (2005)

S. MIKOCKI

Search for QCD Instantons in Deep Inelastic Scattering at HERA.  
Inst. of Nucl. Physics, Krakau/PL (2005)

## Dissertationen

A. AKTAS

Messung von polarisierten Wirkungsquerschnitten des geladenen  
Stroms bei HERA.  
Univ. Hamburg/DE (2005)  
DESY-THESIS-2005-028

S. BAUMGARTNER

Search for Doubly Charged Higgs Decaying into  $\tau$  Leptons at  
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ETHZ-IPP int.Rep. 2005-08

J. BECKER

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G. FLUCKE

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G. GERLICH

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Multi-Impaktparameter Methode am H1 Experiment bei HERA.  
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O. HENSHAW

A First Measurement of the Neutral Current Cross Section at High  
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M. ISMAIL

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Leptoquarks in  $e^\pm p$  Scattering with the H1 Detector at HERA.  
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T. KLIMKOVICH

MSSM Higgs Boson Production at a Future Linear Collider and  
Measurement of  $F_2^{cc}$  and  $F_2^{bb}$  at Low  $Q^2$  DIS at H1.  
Univ. Hamburg/DE (2005)  
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H. LÜDERS

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S. MANGANO

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M. MARTISIKOVA

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B. PORTHEAULT

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Univ. Paris XI, Orsay/FR (2005)

F. TOMASZ

Investigation of Exclusive Photoproduction of  $\eta - \rho^0$  and  $\pi^0 - \rho^0$  Meson Pairs at HERA.  
Univ. Heidelberg/DE (2005)  
DESY-THESIS-2005-032

I.P. TSURIN

The Backward Silicon Track Trigger of the HERA Experiment H1.  
Humboldt Univ. Berlin/DE (2005)  
DESY-THESIS-2005/15

J. ZIMMERMANN

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### Diplomarbeiten

F. BECHTEL

Cross Section Measurements of  $D^*$  Production in the Decay Channel  $D^{*+} \rightarrow K^\pm \pi^+ \pi^+ \pi^\pm \pi^+$  and Search for a Charmed Pentaquark with the H1 Detector at HERA.  
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C. BERG

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A. CHOLEWA

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S. HABIB

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L. MARTI MAGRO

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Univ. Hamburg/DE (2005)  
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J. MERKEL

Systematische Studien zur Ausrichtung der rückwärtigen Detektoren von H1 für die Messung der Protonstrukturfunktion  $F_2$ .  
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S. NIES

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F. ROTHMAIER

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J. SEEHAFFER

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M. STEDER

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Univ. Hamburg/DE (2005)

K. URBAN

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Univ. Dortmund/DE (2005)

## ZEUS-Experiment

### Veröffentlichungen

ZEUS KOLLABORATION, S. CHEKANOV et al.

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