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Curriculum vitae

22.Juni 1953 born in Zürich
1972 Matura Typus B, Kantonsschule Wetzikon
1972 - 1979 Study of experimental physics at Universität Zürich
1980 - 1983 Teaching assistant and PhD student at Universität Zürich,
- experiments at SIN on radiative pion capture on nuclei
1981 Visiting scientist at LBL in Berkeley, Ca., USA,
- working on an experiment to measure the η parameter of the μ decay
1983 Ph.D. of the philosophische Fakultät II of the Universität Zürich
1984 - 1985 PostDoc Position at the Universität Mainz, working at CERN
- on $p\bar{p}$ annihilation at rest with the experiment Asterix
1986 - 1995 Senior assistant at the Physik-Institut, Universität Zürich,
- responsible for the implementation of computing facilities
- building up a new lab course about computing in experiments
- preparing the first level trigger of the H1 experiment
1989 - 1992 - Trigger coordinator and operation manager of H1 at DESY
1994 - 1995 - Technical coordinator of H1 at DESY
1995 Call to a position for scientific leadership (C4) at DESY (Zeuthen)
(offer declined)
1996 - 1999 Professor (C3) of experimental physics at the Universität Heidelberg,
- working on development of micropattern gas detectors (MSGC, GEM)
1996 - 1997 - Trigger coordinator for the project LHCb
1997 - 2001 - Member of the LHC Electronics Board
since 1998 - Project leader silicon tracking for LHCb
- member of the LHCb technical board
- Project coordinator for the central MWPC and trigger upgrade of H1
since 1999 Full professor for experimental physics at Universität Zürich
2000-2003 - Member of the Electronic Services Advisory Committee at CERN
since 2003 - Swiss representative in the restricted European Committee for Future Accelerators

U. Straumann

Liste der Publikationen 1997 bis 2004

I. Detektortechnologien und Triggerelektronik

1. **LHC-B Trigger and Dataacquisition**

LHCb collaboration

LHC-B internal note 97 – 005, February 26, 1997

2. H1 Luminosity Upgrade 2000, CIP and Level-1 Trigger Vertex Trigger

Michael Cuje, Michael Kollak, Sven Loechner, Andreas Schweitzer, Ulrich Straumann, David Müller, Peter Robmann, Felix Sefkow, Peter Truöl Ralph Eichler, Stefan Lüders

DESY PRC – 98/02

3. LHCb, a Large Hadron Collider Beauty Experiment for Precision Measurements of CP-Violation and Rare Decays

LHCb Collaboration

Technical Proposal, CERN/LHCC – 98/4, February 20, 1998

4. The Helix128 Readout Chip Family For Silicon Microstrip Detectors And Microstrip Gaseous Chambers

4th Workshop on Electronics for LHC Experiments (LEB 98)

Rome, Italy, 21-25 Sep 1998

5. Operation of a large GEM-MSGC detector in a high intensity hadronic test beam using fully pipelined readout electronics

U. Straumann et al.

LHCb public note 98-060, 6.10.1998.

6. Performance And Radiation Tolerance Of The Helix128-2.2 And 3.0 Readout Chips For The Hera-B Microstrip Detectors

5th Workshop on Electronics for the LHC Experiments (LEB 99)

Snowmass, Colorado, 20-24 Sep 1999

7. A triple GEM detector for LHCb

M. Ziegler, U. Straumann et al.

LHCb public note 99-024, 30.6.1999.

8. **A triple GEM detector with two dimensional readout**

M. Ziegler, P. Sievers and U. Straumann,

hep-ex/0007007, July 2000

9. A triple GEM detector with two dimensional readout
M. Ziegler, P. Sievers and U. Straumann
Proceedings of the International Conference on Imaging Techniques in the borderlands of High Energy Physics, Astrophysics, Nuclear Physics, Medicine and Biology (Imaging 2000), 28 June - 1 July 2000, Stockholm
Nucl. Instr. and Meth. A 471 (2001) 260-263.
10. First Level Trigger for H1, using the latest FPGA generation
M. Urban, J. Becker, A. Rausch and U. Straumann
Proceedings of the 6th Workshop on Electronics for LHC Experiments 11-15 September 2000, Cracow, Poland.
11. Studies of Aging and HV Breakdown Problems during Development and Operation of MSGC and GEM Detectors for the Inner Tracking System of HERA-B
Y. Bagaturia, O. Baruth, H.B. Dreis, F. Eisele, I. Gorbunov, S. Gradl, W. Gradl, S. Hausmann, M. Hildebrandt, T. Hott, S. Keller, C. Krauss, B. Lomonosov, M. Negodaev, C. Richter, P. Robmann, B. Schmidt, U. Straumann, P. Truöl, S. Visbeck, T. Walter, C. Werner, U. Werthenbach, G. Zech, T. Zeuner, M. Ziegler
hep-ex/0204011
Nuclear Instruments and Methods in Physics Research **A490** (2002), 223 - 242
12. Compact Frontend-Electronics and Bidirectional 3.3 Gbps Optical Datalink for Fast Proportional Chamber Readout
S. Lüders, R. Baldinger, D. Baumeister, K. Bösiger, R. Eichler, M. Feuerstack-Raible, C. Grab, S. Löhner, B. Meier, B.A. Schmid, U. Stange, S. Steiner, U. Straumann, S. Streuli, K. Szeker, and P. Truöl
hep-ex 0107064
Nuclear Instruments and Methods in Physics Research **A 484** (2002), 515 - 527.
13. Purity Monitoring System for the H1 Liquid Argon Calorimeter.
By H1 Calorimeter Group (E. Barrelet et al.). DESY-01-188, hep-ex/0111066
Nucl.Instrum.Meth.**A490** (2002) 204-222.
14. LHCb Collaboration: *LHCb Inner Tracker: Technical Design Report* CERN/LHCC 2002-029
15. *The CIP2K First-Level Trigger System at the H1-Experiment at HERA*,
M. Urban, J. Becker, S. Schmitt, and U. Straumann, IEEE Trans. Nucl. Sci. **50** (2003), 903 - 908
16. R. Antunes Nobrega *et al.* (LHCb collab.), *LHCb re-optimized detector (design and performance) technical design report*, CERN/LHCC 2003-030, LHCb TDR 9, September 2003.

II. Publikationen mit der H1 Kollaboration

17. **The H1 Detector at HERA**
H1-Collaboration
DESY 93 – 103
Nuclear Instruments and Methods **A386**(1997), 310-347, 348-396
18. Measurement of Charged Particle Transverse Momentum Spectra in Deep Inelastic Scattering
H1-Collaboration
DESY 96 – 215
Nucl. Phys. **B485** (1997) 3
19. Scale Influence on the Energy Dependence of Photon-Proton Cross Sections
H1-Collaboration
DESY 96 – 224
Phys.Lett **B392**(1997) 234
20. Determination of the Longitudinal Proton Structure Function $F_L(x, Q^2)$ at Low x
H1-Collaboration
DESY 96 – 236
Phys. Lett. **393B**(1997) 452
21. Diffractive Dissociation in Photoproduction at HERA
H1-Collaboration
DESY 97 – 009
Z.Phys. **C74**(1997) 221
22. Observation of Events at Very High Q^2 in ep Collisions at HERA
H1-Collaboration
DESY 97 – 024
Z. Phys. **C74**(1997) 191
23. A Measurement of the Proton Structure Function $F_2(x, Q^2)$ at low x and low Q^2 at HERA
H1-Collaboration
DESY 97 – 042
Nucl.Phys. **B497**(1997) 3
24. Bose-Einstein Correlations in Deep Inelastic ep Scattering at HERA.
H1-Collaboration
DESY 97 – 075
Z.Phys. **C75**(1997) 437
25. Proton Dissociative Rho and Elastic Phi Electroproduction at HERA
H1-Collaboration
DESY 97 – 082
Z.Phys. **C75**(1997) 607
26. Photoproduction of K^0 and Λ at HERA and a Comparison with Deep Inelastic Scattering
H1-Collaboration
DESY 97 – 095
Z.Phys. **C76**(1997) 213

27. Measurement of Event Shape Variables in Deep Inelastic ep Scattering
H1-Collaboration
DESY 97 – 098
Phys.Lett. **B406**(1997) 256-270
28. Evolution of ep Fragmentation and Multiplicity Distributions in the Breit Frame
H1-Collaboration
DESY 97 – 108
Nucl. Phys. **B504**(1997) 3
29. Inclusive Measurement of Diffractive Deep-Inelastic ep Scattering
H1-Collaboration
DESY 97 – 158
Z.Phys. **C76**(1997) 613
30. Measurement of the Inclusive Di-Jet Cross Section in Photoproduction and Determination of an Effective Parton Distribution in the Photon
H1-Collaboration
DESY 97 – 164
Eur.Phys.J. **C1**(1998) 97-107
31. Low Q^2 Jet Production at HERA and Virtual Photon Structure
H1-Collaboration
DESY 97 – 179
Phys.Lett. **B415**(1997) 418-434
32. Thrust Jet Analysis of Deep-Inelastic Large-Rapidity-Gap Events
H1-Collaboration
DESY 97 – 210
Eur.Phys.J. **C1**(1998) 495-507
33. Photo-production of $\psi(2s)$ Mesons at HERA
H1-Collaboration
DESY 97 – 228
Phys.Lett. **B421** (1998) 385
34. Hadron Production in Diffractive Deep Inelastic Scattering
H1-Collaboration
DESY-98-029 / Phys. Lett.**B428** (1998) 206-220
35. Multiplicity Structure of Hadronic Final States in Diffractive Deep-Inelastic Scattering at HERA
H1-Collaboration
DESY-98-044 / Eur. Phys. J. **C 5** (1998) 3, 439-452
36. Observation of Events with an Isolated High Energy Lepton and Missing Transverse Momentum at HERA
H1-Collaboration
DESY-98-063 / Eur. Phys. J. **C 5** (1998) 575-584
37. Differential (2+1) Jet Rates and Determination of α_s in Deep-Inelastic Scattering at HERA
H1-Collaboration, C. Adloff et al.
DESY 98 – 075
The European Physical Journal **C5** (1998), 625 - 639

38. Diffractive Dijet Photoproduction at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 092
The European Physical Journal **C 6** (1999), 421 - 436
39. Di-jet Event Rates in Deep-Inelastic Scattering at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 076
The European Physical Journal **C13** (2000), 415 - 426
40. Multi-Jet Event Rates in Deep-Inelastic Scattering and Determination of the Strong Coupling Constant
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 087
The European Physical Journal **C6** (1999), 575 - 585
41. Forward Jet and Particle Production at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 143
Nuclear Physics **B538** (1999), 2 - 22
42. Charged Particle Cross Sections in Photoproduction and Extraction of the Gluon Density in the Photon
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 148
The European Physical Journal **C10** (1999), 363 - 372
43. Measurement of Leading Proton and Neutron Production in Deep Inelastic Scattering at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 169
The European Physical Journal **C6** (1999), 587 - 602
44. Measurement of D^* Meson Cross Sections at HERA and Determination of the Gluon Density in the Proton
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 204
Nuclear Physics **B545** (1999), 21 - 44
45. Measurement of Dijet Cross Sections in Low Q^2 and the Extraction of an Effective Parton Density for the Virtual Photon
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 205
The European Physical Journal **C13** (2000), 397 -414
46. Measurement of Internal Jet Structure in Di-jet Production in Deep Inelastic Scattering at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 98 – 210
Nuclear Physics **B545** (1999), 3 - 20
47. Forward π^0 -Meson Production at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 99 – 094
Physics Letters **B462** (1999), 440 - 452

48. Elastic Electroproduction of ρ Mesons at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 99 – 10
The European Physical Journal **C13** (2000), 371 - 396
49. Charmonium Production in Deep Inelastic Scattering at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 99 – 026, hep-ex 9903008
The European Physical Journal **C10** (1999), 373 - 393
50. A Search for Leptoquark Bosons and Lepton Flavour Violation in e^+p Collisions at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 99 – 081, hep-ex 9907002
The European Physical Journal **C11** (1999), 447 - 471; erratum *ibid.* **C14** (2000), 553 - 554
51. Measurement of Transverse Energy Flow in Deep-Inelastic Scattering at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 99 – 091, hep-ex 9907027
The European Physical Journal **C12** (2000), 595 - 607
52. Measurement of Neutral and Charged Current Cross Sections in Positron-Proton Collisions at Large Momentum Transfer
H1-Collaboration, C. Adloff *et al.*
DESY 99 – 107, hep-ex 9908059
The European Physical Journal **C13** (2000), 609 - 639
53. Measurement of Open Beauty Production at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 99 – 126, hep-ex 9909029
Physics Letters **B467** (1999), 156 - 164
54. Investigation of Power Corrections Event Shape Variables Measured in Deep-Inelastic Scattering
H1-Collaboration, C. Adloff *et al.*
DESY 99 – 193, hep-ex 9912052
The European Physical Journal **C14** (2000), 255 - 269
55. Search for Compositeness, Leptoquarks and Large Extra Dimensions in eq Contact Interactions at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 00 – 027, hep-ex 0003002
Physics Letters **B479** (2000), 358 - 370
56. Measurement of Di-jet Cross Sections in Photoproduction and Photon Structure H1-Collaboration, C. Adloff *et al.*
DESY 00 – 035, hep-ex 0003011
Physics Letters **B483** (2000), 36 - 48
57. Elastic Photoproduction of J/Ψ - and Y -Mesons at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 00 – 037, hep-ex 0003020
Physics Letters **B483** (2000), 23 - 35

58. Elastic Φ -Meson Production at HERA H1-Collaboration, C. Adloff *et al.*
 DESY 00 – 070, hep-ex 0005010
 Physics Letters **B483** (2000), 360 - 372
59. Inclusive Photoproduction of Neutral Pions in the Photon Hemisphere at HERA
 H1-Collaboration, C. Adloff *et al.*
 DESY 00 – 085, hep-ex 0006017
 The European Physical Journal **C18** (2000), 293.
60. A Search for Excited Fermions at HERA
 H1-Collaboration, C. Adloff *et al.*
 DESY 00 – 102, hep-ex 0007035
 The European Physical Journal **C17** (2000), 567.
61. Di-jet Production in Charged and Neutral Current e^+p Interactions at High Q^2
 H1-Collaboration, C. Adloff *et al.*
 DESY 00 – 143, hep-ex 0010016
 The European Physical Journal **C19** (2001), 429 - 440
62. Measurement and QCD Analysis of Jet Cross Sections in Deep-Inelastic Positron-Proton Collisions
 at \sqrt{s} of 300 GeV
 H1-Collaboration, C. Adloff *et al.*
 DESY 00 – 145, hep-ex 0010054
 The European Physical Journal **C19** (2001), 289 - 311
63. Diffractive Jet-Production in Deep-Inelastic e^+p Collisions at HERA
 H1-Collaboration, C. Adloff *et al.*
 DESY 00 – 174, hep-ex 0012051
 The European Physical Journal **C20** (2001), 29 - 49
64. **Deep-Inelastic Inclusive ep Scattering at Low x and a Determination of α_s**
 H1-Collaboration, C. Adloff *et al.*
 DESY 00 – 181, hep-ex 0012053
 The European Physical Journal **C21** (2001), 33 - 61
65. Measurement of Neutral and Charged Current Cross Sections in Electron-proton Collisions at High
 Q^2 at HERA
 H1-Collaboration, C. Adloff *et al.*
 DESY 00 – 187, hep-ex 0012052
 The European Physical Journal **C19** (2001), 269 - 288
66. Searches at HERA for Squarks in R-Parity Violating Supersymmetry
 H1-Collaboration**, C. Adloff *et al.*
 DESY 01 – 021, hep-ex 0102050
 The European Physical Journal **C20** (2001), 639 - 657
67. Photoproduction with a Leading Proton at HERA
 H1-Collaboration, C. Adloff *et al.*
 DESY 01 – 062, hep-ex 0106070
 submitted to Nuclear Physics **B** (2001)
68. Three-Jet Production in Deep-Inelastic Scattering at HERA
 H1-Collaboration, C. Adloff *et al.*

- DESY 01 – 073, hep-ex 0106078
Physics Letters **B515** (2001), 17 - 29
69. First Measurement of the Cross Section for Deeply Virtual Compton Scattering
H1-Collaboration, C. Adloff *et al.*
DESY 01 – 093, hep-ex 0107005
Physics Letters **B517** (2001), 47 -58
70. A Search for Leptoquark Bosons in e^-p Collisions at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 01 – 094, hep-ex 0107038
Physics Letters **B523** (2001), 234 - 242
71. **On the Rise of the Proton Structure Function F_2 towards Low x**
H1-Collaboration, C. Adloff *et al.*
DESY 01 – 104, hep-ex 0108035
Physics Letters **B520** (2001), 183 - 190
72. Measurement of $D^{*\pm}$ -Meson Production and F_2^c in Deep Inelastic Scattering at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 01 – 100, hep-ex 0108039
Physics Letters **B528** (2002), 199 - 215
73. $D^{*\pm}$ Meson Production in Deep-Inelastic Diffractive Interactions at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 01 – 105, hep-ex 0108047
Physics Letters **B520** (2001), 191
74. Search for Excited Neutrinos at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 01 – 145, hep-ex/0110037
Physics Letters **B525** (2002), 9 - 16
75. Measurement of Dijet Electroproduction at Small Jet Separation
H1-Collaboration, C. Adloff *et al.*
DESY 01 – 178, hep-ex/0111006
The European Physical Journal **C24** (2002), 33 - 41
76. Measurement of Dijet Cross Sections in Photoproduction at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 01 – 225, hep-ex/0201006
The European Physical Journal **C25** (2002), 13 - 23
77. Energy Flow and Rapidity Gaps between Jets in Photoproduction at H1-Collaboration, C. Adloff
et al.
DESY 02 – 023, hep-ex/0203011
The European Physical Journal **C24** (2002), 517 - 527
78. A Measurement of the t Dependence of the Helicity Structure of Diffractive ρ Meson Electroproduction at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 02 – 027, hep-ex/0203022
Physics Letters **B539** (2002), 25 - 39

79. Inelastic Photoproduction of J/Ψ Mesons at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 02 – 059, hep-ex/0205064
The European Journal of Physics **C25** (2002), 25 - 39
80. Inelastic Leptoproduction of J/Ψ Mesons at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 02 – 060, hep-ex/0205065
The European Journal of Physics **C25** (2002), 41 - 53
81. Search for QCD Instanton-Induced Processes in Deep-Inelastic Scattering at HERA H1-Collaboration,
C. Adloff *et al.*
DESY 02 – 062, hep-ex/0205078
The European Journal of Physics **C** (2002), in print.
82. Diffractive Photoproduction of $\Psi(2S)$ Mesons at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 02 – 075, hep-ex/0205107
Physics Letters **B541** (2002), 251 - 264
83. Measurement of Inclusive Jet Cross Sections in Deep-Inelastic ep Scattering at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 02 – 079, hep-ex/0206029
Physics Letters **B542** (2002), 193 - 206
84. Search for Odderon-induced Contributions to Exclusive π^0 Photoproduction at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 02 – 087, hep-ex/0206073
Physics Letters **B544** (2002), 35 - 43
85. Search for Excited Electrons at HERA
H1-Collaboration, C. Adloff *et al.*
DESY 02 – 96, hep-ex/0207038
Phys. Lett. B **548**, 35 (2002)
86. Isolated electrons and muons in events with missing transverse momentum at HERA
DESY 02 – 224, hep-ex/0301030
H1 Collab., V. Andreev *et al.*, Phys. Lett. B561 (2003) 241
87. Measurement of inclusive jet cross sections in photoproduction at HERA
DESY 02 – 225, hep-ex/0302034
H1 Collab., C. Adloff *et al.*, Eur Phys J C29 (2003) 497-513
88. Measurement and QCD Analysis of Neutral and Charged Current Cross Sections at HERA
DESY 03 – 038, hep-ex/0304003
H1 Collab., C. Adloff *et al.*, Eur Phys J C30 (2003) 1-32
89. Search for new Physics in $e^\pm q$ contact interactions at HERA
DESY 03 – 052, hep-ex/0305015
H1 Collab., C. Adloff *et al.*, Phys Lett B568 (2003) 35-47
90. Diffractive Photoproduction of J/ψ Mesons with Large Momentum Transfer at HERA
DESY 03 – 061, hep-ex/0306013
H1 Collab., A. Aktas *et al.*, Phys Lett B568 (2003) 205-218

91. *Multi-electron Production at High Transverse Momentum in ep Collisions at HERA*,
DESY 03 – 082, hep-ex/0307015, The European Physical Journal **C31** (2003), 17 - 29
92. *Search for Single Top Quark Production in $e^\pm p$ Collisions at HERA*,
DESY 03 – 132, hep-ex/0310032, The European Physical Journal **C33** (2004), 9 - 22
93. *Inclusive Dijet Production at Low Bjorken- x in Deep Inelastic Scattering*,
DESY 03 – 160, hep-ex/0310019, The European Physical Journal **C33** (2004), 477 - 493
94. *Muon Pair Production in ep Collisions at HERA*,
DESY 03 – 159, hep-ex/0311015, Physics Letters **B583** (2004), 28 - 40
95. *Evidence for a Narrow Anti-Charmed Baryon State*,
DESY 04 – 038, hep-ex/0403017, Physics Letters **B588** (2004), 17 - 28
96. *Search for Squark Production in R-Parity Violating Supersymmetry at HERA*,
DESY 04 – 025, hep-ex/0403027, The European Physical Journal **C36** (2004), 425 - 440
97. *Measurement of Anti-Deuteron Photoproduction and a Search for Heavy Stable Charged Particles at HERA*,
DESY 04 – 032, hep-ex/0403056, The European Physical Journal **C36** (2004), 413 - 423
98. *Forward π^0 Production and Associated Transverse Energy Flow in Deep-Inelastic Scattering at HERA*,
DESY 04 – 051, hep-ex/0404009, The European Physical Journal **C36** (2004), 441 - 452
99. *Measurement of Dijet Production at Low Q^2 at HERA*,
DESY 03 – 206, hep-ex/0401010, The European Physical Journal **C37** (2004), 141 - 159
100. *Search for Bosonic Stop Decays in R-parity Violating Supersymmetry in $e^\pm p$ Collisions at HERA*,
DESY 04 – 084, hep-ex/0405070, Physics Letters **B599** (2004), 159 - 172
101. *Measurement of the Proton Structure Function F_2 at low Q^2 in QED Compton Scattering at HERA*,
DESY 04 – 083, hep-ex/0406029, Physics Letters **B598** (2004), 159 - 171
102. *Measurement of Prompt Photon Cross Sections in Photoproduction at HERA*,
DESY 04 – 118, hep-ex/0407018, The European Physical Journal **C** (2004)
103. *A General Search for New Phenomena in ep Scattering at HERA*,
DESY 04 – 140, hep-ex/0408044, Physics Letters **B** (2004)
104. *Inclusive Production of D^+ , D^0 , D_s^+ and D^{*+} Mesons in Deep Inelastic Scattering at HERA*,
DESY 04 – 156, hep-ex/0408149, The European Physical Journal **C** (2004)