

## **Publications (since 1986): Prof. Eric Eisenhandler June 2009**

**Note:** This list does not include approximately 55 publications in refereed journals prior to 1986.

### **Recent publications:**

- E. Eisenhandler, ATLAS Style Guide. ATL-GEN-PUB-2008-001, 51pp, 2008.
- R. Achenbach et al., First data with the ATLAS level-1 calorimeter trigger. Presented by E. Eisenhandler at IEEE Nuclear Structure Symposium, Dresden, Germany, Oct. 2008. ATL-DAQ-PROC-2008-006, 8pp, 2009.
- R. Achenbach et al., The ATLAS Level-1 Calorimeter Trigger. JINST 3:P003001, 39pp, 2008.
- The ATLAS Collaboration (G. Aad et al.), The ATLAS Experiment at the CERN Large Hadron Collider. JINST 3:S08003, 432pp., 2008.
- ATLAS Collaboration (R. Achenbach et al.), Analysis of the initial performance of the ATLAS level-1 calorimeter trigger. Naxos conference on Electronics for Particle Physics, CERN-2008-008, 5pp, 2008.
- R. Achenbach et al., Testing and calibrating analogue inputs to the ATLAS level-1 calorimeter trigger. Naxos conference on Electronics for Particle Physics, CERN-2008-008, 5pp, 2008.
- R. Achenbach et al., Digital signal integrity and stability in the ATLAS level-1 calorimeter trigger. Naxos conference on Electronics for Particle Physics, CERN-2008-008, 5pp, 2008..
- R. Achenbach et al., Control, test and monitoring software framework for the ATLAS level-1 calorimeter trigger. Naxos conference on Electronics for Particle Physics, CERN-2008-008, 5pp, 2008.
- ATLAS Collaboration (G. Aad et al.), Expected Performance of the ATLAS Experiment – Detector, Trigger and Physics. arXiv:0901.0512, 1852pp, 2009.
- M. Abolins et al., The ATLAS trigger: Commissioning with cosmic rays. J.Phys.Conf.Ser.119:022014, 12pp, 2008.
- R. Achenbach et al., Production test rig for the ATLAS level-1 calorimeter trigger digital processors. Valencia conference on Electronics for LHC and future experiments, ATL-DAQ-CONF-2007-016, 4pp, 2007.
- R. Achenbach et al., Large scale production of the multi-chip module of the ATLAS level-1 calorimeter trigger. Valencia conference on Electronics for LHC and future experiments, ATL-DAQ-CONF-2007-021, 5pp, 2007.
- G. Aielli et al., The ATLAS Level-1 Trigger: Status of the System and First Results from Cosmic-Ray Data. Nucl.Instrum.Meth.A582, 476, 6pp, 2007.
- R. Achenbach et al., Commissioning Experience with the ATLAS Level-1 Calorimeter Trigger System, IEEE Transactions on Nuclear Science 55: 99-105, 2008.
- J.R.A. Booth et al., Large scale production of the Multi-Chip Module of the ATLAS Level-1 Calorimeter Trigger. To be presented at 12th Workshop on Electronics for LHC and Future Experiments, Valencia, Spain, September 2006.
- J.R.A. Booth et al., Production Test Rig for the ATLAS Level-1 Calorimeter Trigger Digital Processors. To be presented at 12th Workshop on Electronics for LHC and Future Experiments, Valencia, Spain, September 2006.
- R. Achenbach et al., Pre-production validation of the ATLAS Level-1 Calorimeter Trigger system. IEEE Transactions on Nuclear Science, 53 (2006) 859–863.

### **Publications before 2006:**

- E. Eisenhandler, ATLAS Level-1 Trigger Algorithms. CERN-ATL-DAQ-2004-011, Sept. 2004.
- J. Garvey et al., Beam test of the ATLAS Level-1 Calorimeter Trigger System. Presented at IEEE Nuclear Structure Symposium and Medical Imaging Conference, Rome, October 2004. CERN-ATL-DAQ-CONF-2005-006.
- J. Garvey et al., The ATLAS Level-1 Calorimeter Trigger Architecture. IEEE Trans.Nucl.Sci.51:356-360,2004.
- J. Garvey et al., ATLAS Level-1 Calorimeter Trigger: Subsystem tests of a Jet/Energy-sum Processor Module. IEEE Trans.Nucl.Sci.51:2356-2361,2004.
- J. Garvey et al., Use of an FPGA to identify electromagnetic clusters and isolated hadrons in the ATLAS Level-1 Calorimeter Trigger. Nucl.Instrum.Meth.A512:506-516,2003.
- J. Garvey et al., ATLAS Level-1 Calorimeter Trigger: Subsystem tests of a prototype Cluster Processor Module. In Amsterdam 2003, Electronics for LHC experiments, CERN/LHCC/2003-006 230-234.
- J. Garvey et al., Test results for the Jet/Energy Processor of the ATLAS Level-1 Calorimeter Trigger. In Amsterdam 2003, Electronics for LHC experiments, CERN/LHCC/2003-006 235-239.
- G. Anagnostou et al., Prototype cluster processor module for the ATLAS level-1 calorimeter trigger. In Colmar 2002, Electronics for LHC experiments, CERN/LHCC 2002-034 256-60.
- C. Adloff et al., Search for new physics in  $e^+ - q$  contact interactions at HERA. Phys.Lett.B568:35-47,2003

- C. Adloff et al., Search for excited electrons at HERA. Phys.Lett.B548:35-44,2002.
- C. Adloff et al., Measurement of inclusive jet cross-sections in deep inelastic ep scattering at HERA. Phys.Lett.B542:193-206,2002.
- C. Adloff et al., Search for odderon induced contributions to exclusive pi0 photoproduction at HERA. Phys.Lett.B544:35-43,2002.
- C. Adloff et al., Inelastic photoproduction of J/psi mesons at HERA. Eur.Phys.J.C25:25-39,2002.
- C. Adloff et al., Inelastic leptonproduction of J/psi mesons at HERA. Eur.Phys.J.C25:41-53,2002.
- C. Adloff et al., Search for QCD instanton induced processes in deep inelastic scattering at HERA. Eur.Phys.J.C25:495-509,2002.
- C. Adloff et al., Diffractive photoproduction of psi(2S) mesons at HERA. Phys.Lett.B541:251-264,2002.
- C. Adloff et al., Energy flow and rapidity gaps between jets in photoproduction at HERA. Eur.Phys.J.C24:517-527,2002.
- C. Adloff et al., A Measurement of the t dependence of the helicity structure of diffractive rho meson electroproduction at HERA. Phys.Lett.B539:25-39,2002.
- C. Adloff et al., Measurement of dijet cross- sections in photoproduction at HERA. Eur.Phys.J.C25:13-23,2002.
- C. Adloff et al., Measurement of dijet electroproduction at small jet separation. Eur.Phys.J.C24:33-41,2002.
- C. Adloff et al., Search for excited neutrinos at HERA. Phys.Lett.B525:9-16,2002.
- G. Anagnostou et al., One size fits all: Multiple uses of common modules in the ATLAS level-1 calorimeter trigger. In Stockholm 2001, Electronics for LHC experiments, CERN/LHCC/2001-034 253-7.
- G. Anagnostou et al., The final multi-chip module of the ATLAS level-1 calorimeter trigger pre-processor. In Stockholm 2001, Electronics for LHC experiments, CERN/LHCC/2001-034 258-62.
- G. Anagnostou et al., Prototype readout module for the ATLAS level-1 calorimeter trigger processors. In Stockholm 2001, Electronics for LHC experiments, CERN/LHCC/2001-034 263-67.
- C. Adloff et al., On the rise of the proton structure function F towards low x. Phys.Lett.B520:183-190,2001.
- C. Adloff et al., Measurement of deeply virtual Compton scattering at HERA. Phys.Lett.B517:47-58,2001.
- C. Adloff et al., Measurement of D\*+- meson production and F\*\*c in deep inelastic scattering at HERA. Phys.Lett.B528:199-214,2002.
- C. Adloff et al., D\*+- meson production in deep inelastic diffractive interactions at HERA. Phys.Lett.B520:191-203,2001.
- C. Adloff et al., Three jet production in deep inelastic scattering at HERA. Phys.Lett.B515:17-29,2001.
- C. Adloff et al., A search for leptoquark bosons in e- p collisions at HERA. Phys.Lett.B523:234-242,2001.
- C. Adloff et al., Photoproduction with a leading proton at HERA. Nucl.Phys.B619:3-21,2001.
- C. Adloff et al., Searches at HERA for squarks in R-parity violating supersymmetry. Eur.Phys.J.C20:639-657,2001.
- C. Adloff et al., Diffractive jet production in deep inelastic e+ p collisions at HERA. Eur.Phys.J.C20:29-49,2001.
- C. Adloff et al., Measurement of neutral and charged current cross-sections in electron-proton collisions at high Q\*\*2. Eur.Phys.J.C19:269-288,2001.
- C. Adloff et al., Deep inelastic inclusive e-p scattering at low x and a determination of alpha(s). Eur.Phys.J.C21:33-61,2001.
- C. Adloff et al., Measurement and QCD analysis of jet cross-sections in deep inelastic positron-proton collisions at sqrt(s) of 300-GeV. Eur.Phys.J.C19:289-311,2001.
- C. Adloff et al., Dijet production in charged and neutral current e+ p interactions at high Q\*\*2. Eur.Phys.J.C19:429-440,2001.
- G. Anagnostou et al., Study of LVDS serial links for the ATLAS level-1 calorimeter trigger. In Cracow 2000, Electronics for LHC experiments, CERN/LHCC 2000-010 333-37.
- C. Adloff et al., A Search for excited fermions at HERA. Eur.Phys.J.C17:567-581,2000.
- C. Adloff et al., Inclusive photoproduction of neutral pions in the photon hemisphere at HERA. Eur.Phys.J.C18:293-302,2000.
- C. Adloff et al., Measurement of elastic electroproduction of phi mesons at HERA. Phys.Lett.B483:360-372,2000.
- C. Adloff et al., Measurement of dijet cross- sections in photoproduction and photon structure. Phys.Lett.B483:36-48,2000.
- C. Adloff et al., Elastic photoproduction of J/psi and Upsilon mesons at HERA. Phys.Lett.B483:23-35,2000.
- C. Adloff et al., Search for compositeness, leptoquarks and large extra dimensions in e-q contact interactions at HERA. Phys.Lett.B479:358-370,2000.
- C. Adloff et al., Investigation of power corrections to event shape variables measured in DIS. Eur.Phys.J.C14:255-269.
- C. Adloff et al., Measurement of open beauty production at HERA. Phys.Lett.B467:156-164,1999.
- C. Adloff et al., Measurement of neutral and charged current cross-sections in positron proton collisions at large momentum transfer. Eur.Phys.J.C13:609-639,2000.
- C. Adloff et al., Measurements of transverse energy flow in deep inelastic scattering at HERA. Eur.Phys.J.C12:595-607,2000.
- C. Adloff et al., Forward pi0 meson production at HERA. Phys.Lett.B462:440-452,1999.
- C. Adloff et al., A Search for leptoquark bosons and lepton flavor violation in e+ p collisions at HERA. Eur.Phys.J.C11:447-471,1999.

- C. Adloff et al., Charmonium production in deep inelastic scattering at HERA. *Eur.Phys.J.C*10:373-393,1999.
- C. Adloff et al., Elastic electroproduction of rho mesons at HERA. *Eur.Phys.J.C*13:371-396,2000.
- C. Bohm et al., Test beam results from the ATLAS level-1 calorimeter trigger demonstrator. *IEEE Trans.Nucl.Sci.*46:904-909,1999.
- V. Perera et al., The electron/photon and tau/hadron cluster processor for the ATLAS first level trigger: A flexible test system. In Snowmass 1999, Electronics for LHC experiments, CERN/LHCC/99-09 299-303.
- R.D. Appuhn et al., The electronics of the H1 lead/scintillating fiber calorimeters. *Nucl.Instrum.Meth.A*426:518-537,1999.
- C. Adloff et al., Measurement of  $D^*$  meson cross-sections at HERA and determination of the gluon density in the proton using NLO QCD. *Nucl.Phys.B*545:21-44,1999.
- C. Adloff et al., Measurement of dijet cross-sections at low  $Q^{*2}$  and the extraction of an effective parton density for the virtual photon. *Eur.Phys.J.C*13:397-414,2000.
- C. Adloff et al., Measurement of internal jet structure in dijet production in DIS at HERA. *Nucl.Phys.B*545:3-20,1999.
- C. Adloff et al., Charged particle cross-sections in photoproduction and extraction of the gluon density in the photon. *Eur.Phys.J.C*10:363-372,1999.
- C. Adloff et al., Measurement of leading proton and neutron production in DIS at HERA. *Eur.Phys.J.C*6:587-602,1999.
- C. Adloff et al., Forward jet and particle production at HERA. *Nucl.Phys.B*538:3-22,1999.
- C. Adloff et al., Diffractive dijet production at HERA. *Eur.Phys.J.C*6:421-436,1999.
- C. Adloff et al., Multijet event rates in DIS and determination of the strong coupling constant. *Eur.Phys.J.C*6:575-585,1999.
- C. Adloff et al., Differential 2+jet event rates and determination of  $\alpha(s)$  in DIS at HERA. *Eur.Phys.J.C*5:625-639,1998.
- C. Adloff et al., Dijet event rates in deep inelastic scattering at HERA. *Eur.Phys.J.C*13:415-426,2000.
- C. Adloff et al., Observation of events with an isolated high-energy lepton and missing transverse momentum at HERA. *Eur.Phys.J.C*5:575-584,1998.
- C. Adloff et al., Multiplicity structure of the hadronic final state in diffractive DIS at HERA. *Eur.Phys.J.C*5:439-452,1998.
- C. Adloff et al., Hadron production in diffractive deep inelastic scattering. *Phys.Lett.B*428:206-220,1998.
- ATLAS first-level trigger Technical Design Report. CERN/LHCC 98-14, 1998.
- E. Eisenhandler, Hardware triggers at the LHC. In Rome 1998, Electronics for LHC experiments, CERN/LHCC/98-36 47-56.
- P. Bright-Thomas et al., ATLAS level-1 calorimeter trigger system architecture. In Rome 1998, Electronics for LHC experiments, CERN LHCC/98-36 311-15.
- V. Perera et al., The  $e/\gamma$  and tau/hadron processor system for the ATLAS first level trigger. In Rome 1998, Electronics for LHC experiments, CERN/LHCC/98-36 316-20.
- C. Adloff et al., Thrust jet analysis of deep inelastic large rapidity gap events. *Eur.Phys.J.C*1:495-507,1998.
- C. Adloff et al., Photoproduction of  $\psi(2S)$  mesons at HERA. *Phys.Lett.B*421:385-394,1998.
- C. Adloff et al., Measurement of the inclusive dijet cross-section in photoproduction and determination of an effective parton distribution in the photon. *Eur.Phys.J.C*1:97-107,1998.
- C. Adloff et al., Low  $Q^{*2}$  jet production at HERA and virtual photon structure. *Phys.Lett.B*415:418-434,1997.
- C. Adloff et al., Inclusive measurement of diffractive deep inelastic ep scattering. *Z.Phys.C*76:613-629,1997.
- C. Adloff et al., Measurement of event shape variables in deep inelastic ep scattering. *Phys.Lett.B*406:256-270,1997.
- C. Adloff et al., Evolution of ep fragmentation and multiplicity distributions in the Breit frame. *Nucl.Phys.B*504:3-23,1997.
- C. Adloff et al., Bose-Einstein correlations in deep inelastic e p scattering at HERA. *Z.Phys.C*75:437-451,1997.
- C. Adloff et al., Proton dissociative rho and elastic phi electroproduction at HERA. *Z.Phys.C*75:607-618,1997.
- C. Adloff et al., Photoproduction of  $K_0$  and  $\Lambda$  at HERA and a comparison with deep inelastic scattering. *Z.Phys.C*76:213-221,1997.
- R.D. Appuhn et al., Series tests of fine mesh photomultiplier tubes in magnetic fields of up to 1.2-Tesla. *Nucl.Instrum.Meth.A*404:265-282,1998.
- C. Adloff et al., A Measurement of the proton structure function  $f_2(x, q^{*2})$  at low x and low  $q^{*2}$  at HERA. *Nucl.Phys.B*497:3-30,1997.
- C. Adloff et al., Diffraction dissociation in photoproduction at HERA. *Z.Phys.C*74:221-236,1997.
- C. Adloff et al., Observation of events at very high  $Q^{*2}$  in e p collisions at HERA. *Z.Phys.C*74:191-206,1997.
- C. Bohm et al., Operation of the ATLAS level-1 calorimeter trigger demonstrator system. In London 1997, Electronics for LHC experiments, CERN/LHCC/97-60 378-82.
- A. Connors et al., Performance of the front end demonstrator system for the ATLAS level-1 calorimeter trigger. In London 1997, Electronics for LHC experiments, CERN/LHCC/97-60 383-87.
- C. Adloff et al., Determination of the longitudinal proton structure function  $F(L)(x, Q^{*2})$  at low x. *Phys.Lett.B*393:452-464,1997.

- C. Adloff et al., Measurement of charged particle transverse momentum spectra in deep inelastic scattering. Nucl.Phys.B485:3-24,1997.
- S. Aid et al., Scale influence on the energy dependence of photon-proton cross-sections. Phys.Lett.B392:234-242,1997.
- S. Aid et al., Search for excited fermions with the H1 detector. Nucl.Phys.B483:44-66,1997.
- S. Aid et al., Charged particle multiplicities in deep inelastic scattering at HERA. Z.Phys.C72:573-592,1996.
- R.D. Appuhn et al., The H1 lead/scintillating fiber calorimeter. Nucl.Instrum.Meth.A386:397-408,1997.
- C. Adloff et al., Inclusive D0 and D\*+- production in deep inelastic ep scattering at HERA. Z.Phys.C72:593-605,1996.
- I. Abt et al., The tracking, calorimeter and muon detectors of the H1 experiment at HERA. Nucl.Instrum.Meth.A386:348-396,1997.
- S. Aid et al., Strangeness production in deep inelastic positron-proton scattering at HERA. Nucl.Phys.B480:3-34,1996.
- S. Aid et al., A search for selectrons and squarks at HERA. Phys.Lett.B380:461-470,1996.
- S. Aid et al., Photoproduction of D\*+- mesons in electron-proton collisions at HERA. Nucl.Phys.B472:32-54,1996.
- S. Aid et al., A search for squarks of Rp violating SUSY at HERA. Z.Phys.C71:211-226,1996.
- S. Aid et al., A measurement and QCD analysis of the proton structure function f2 (x, q\*\*2) at HERA. Nucl.Phys.B470:3-40,1996.
- S. Aid et al., Elastic and inelastic photoproduction of J/psi mesons at HERA. Nucl.Phys.B472:3-31,1996.
- S. Aid et al., Measurement of the q\*\*2 dependence of the charged and neutral current cross-sections in e+-p scattering at HERA. Phys.Lett.B379:319-329,1996.
- S. Aid et al., Energy flow in the hadronic final state of diffractive and nondiffractive DIS at HERA. Z.Phys.C70:609-620,1996.
- S. Aid et al., Elastic electroproduction of rho0 and J/psi mesons at large q\*\*2 at HERA. Nucl.Phys.B468:3-36,1996.
- S. Aid et al., Elastic photoproduction of rho0 mesons at HERA. Nucl.Phys.B463:3-32,1996.
- I. Abt et al., The H1 detector at HERA. (Updated version). Nucl.Instrum.Meth.A386:310-347,1997.
- V. Perera et al., A level-1 calorimeter trigger for the ATLAS experiment: Demonstrator system. In Balatonfuereed 1996, Electronics for LHC experiments, CERN/LHCC 96-39 137-41.
- S. Aid et al., A search for leptoquarks at HERA. Phys.Lett.B369:173-185,1996.
- R.D. Appuhn et al., Hadronic response and e/pi separation with the H1 lead/fiber calorimeter. Nucl.Instrum.Meth.A382:395-412,1996.
- S. Aid et al., Jets and energy flow in photon-proton collisions at HERA. Z.Phys.C70:17-30,1996.
- C. Albajar et al., Measurement of alpha-s from b anti-b production at the CERN p anti-p collider. Phys.Lett.B369:46-54,1996.
- S. Aid et al., Measurement of the total photon-proton cross-section and its decomposition at 200-GeV center-of-mass energy. Z.Phys.C69:27-38,1995.
- T. Nicholls et al., Performance of an electromagnetic lead/scintillating fiber calorimeter for the H1 detector. Nucl.Instrum.Meth.A374:149-156,1996.
- S. Aid et al., Comparison of deep inelastic scattering with photoproduction interactions at HERA. Phys.Lett.B358:412-422,1995.
- S. Aid et al., Transverse energy and forward jet production in the low x regime at HERA. Phys.Lett.B356:118-128,1995.
- S. Aid et al., A direct determination of the gluon density in the proton at low x. Nucl.Phys.B449:3-24,1995.
- S. Aid et al., The gluon density of the proton at low x from a QCD analysis of F2. Phys.Lett.B354:494-505,1995.
- S. Aid et al., Measurement of the e+ and e- induced charged current cross-sections at HERA. Z.Phys.C67:565-576,1995.
- T. Ahmed et al., Inclusive parton cross- sections in photoproduction and photon structure. Nucl.Phys.B445:195-218,1995.
- S. Aid et al., Leptoquarks and compositeness scales from a contact interaction analysis of deep inelastic e+- p scattering at HERA. Phys.Lett.B353:578-588,1995.
- S. Aid et al., A study of the fragmentation of quarks in e- p collisions at HERA. Nucl.Phys.B445:3-24,1995.
- I. Brawn et al., Bunch-crossing identification for the ATLAS first-level calorimeter trigger. In Lisbon, Electronics for LHC Experiments, CERN/LHCC/95-96, 297, 1995.
- V. Perera et al., A first-level calorimeter trigger for the ATLAS experiment. In Lisbon, Electronics for LHC Experiments, CERN/LHCC/95-96, 297-301, 1995.
- T. Ahmed et al., First measurement of the deep inelastic structure of proton diffraction. Phys.Lett.B348:681-696,1995.
- T. Ahmed et al., Experimental study of hard photon radiation processes at HERA. Z.Phys.C66:529-542,1995.
- T. Ahmed et al., A measurement of the proton structure function f2 (x, Q\*\*2). Nucl.Phys.B439:471-502,1995.
- E. Eisenhandler, Level-1 triggers for LHC experiments. In L'Aquila 1993, Proceedings, CERN School of Computing CERN 94-06 98-120.
- E. Eisenhandler et al., The H1 SPACAL time-to-digital converter system. IEEE Trans.Nucl.Sci.42:688-692,1995.
- V. Perera et al., A first level calorimeter trigger for the ATLAS experiment. IEEE Trans.Nucl.Sci.42:844-848,1995.
- T. Ahmed et al., A pipelined first level trigger for the H1 forward muon spectrometer. Nucl.Instrum.Meth.A364:456-472,1995.
- T. Ahmed et al., Observation of hard processes in rapidity gap events in gamma-p interactions at HERA. Nucl.Phys.B435:3-22,1995.

- T. Ahmed et al., Determination of the strong coupling constant from jet rates in deep inelastic scattering. Phys.Lett.B346:415-425,1995.
- T. Ahmed et al., A search for heavy leptons at HERA. Phys.Lett.B340:205-216,1994.
- T. Ahmed et al., Photoproduction of J/psi mesons at HERA. Phys.Lett.B338:507-518,1994.
- T. Ahmed et al., A search for leptoquarks and squarks at HERA. Z.Phys.C64:545-558,1994.
- T. Ahmed et al., Deep inelastic scattering events with a large rapidity gap at HERA. Nucl.Phys.B429:477-502,1994.
- I. Abt et al., Inclusive charged particle cross-sections in photoproduction at HERA. Phys.Lett.B328:176-186,1994.
- I. Abt et al., Energy flow and charged particle spectrum in deep inelastic scattering at HERA. Z.Phys.C63:377-390,1994.
- I.P. Brawn et al., Beam tests of a prototype level-1 calorimeter trigger for LHC experiments. Nucl.Instrum.Meth.A349:356-366,1994.
- T. Ahmed et al., First measurement of the charged current cross-section at HERA. Phys.Lett.B324:241-248,1994.
- A.T. Watson et al., A first level calorimeter trigger for LHC experiments. Design studies, and beam tests of a first prototype trigger system. In San Francisco 1994, Computing in High Energy Physics '94 70-73. Lawrence Berkeley Lab.-LBL-35822.
- I.P. Brawn et al., First results from a prototype level 1 calorimeter trigger system for LHC. Calorimetry in HEP 1993:264-272.
- I. Abt et al., A measurement of multi-jet rates in deep inelastic scattering at HERA. Z.Phys.C61:59-66,1994.
- I. Abt et al., Scaling violations of the proton structure function  $f_2$  at small  $x$ . Phys.Lett.B321:161-167,1994.
- I. Abt et al., Measurement of the proton structure function  $F_2(x, Q^2)$  in the low  $x$  region at HERA. Nucl.Phys.B407:515-538,1993.
- C. Albajar et al., Measurement of  $b$  anti- $b$  correlations at the CERN  $p$  anti- $p$  collider. Z.Phys.C61:41-52,1994.
- I. Abt et al., Measurement of inclusive jet cross-sections in photoproduction at HERA. Phys.Lett.B314:436-444,1993.
- I. Abt et al., A search for leptoquarks, leptogluons and excited leptons in H1 at HERA. Nucl.Phys.B396:3-26,1993.
- T. Ahmed et al., Total photoproduction cross-section measurement at HERA energies. Phys.Lett.B299:374-384,1993.
- T. Ahmed et al., Measurement of the hadronic final state in deep inelastic scattering at HERA. Phys.Lett.B298:469-478,1993.
- T. Ahmed et al., Observation of deep inelastic scattering at low  $x$ . Phys.Lett.B299:385-393,1993.
- T. Ahmed et al., Hard scattering in gamma  $p$  interactions. Phys.Lett.B297:205-213,1992.
- C. Albajar et al., Multifractal analysis of minimum bias events in  $\sqrt{s} = 630$  GeV anti- $p$   $p$  collisions. Z.Phys.C56:37-46,1992.
- T. Ahmed et al., A pipelined first level forward muon drift chamber trigger for H1. In Annecy 1992, Computing in high energy physics '92, CERN 92-07 218-22.
- N. Ellis et al., A calorimeter-based level-one electromagnetic cluster trigger for LHC. In Annecy 1992, Computing in high energy physics '92, CERN 92-07 210-21.
- C. Albajar et al., First observation of the beauty baryon  $\Lambda(b)$  in the decay channel  $\Lambda(b) \rightarrow J/\psi \Lambda$  at the CERN proton-anti-proton collider. Phys.Lett.B273:540-548,1991, Moriond 1992: Hadronic:249-254.
- C. Albajar et al., Measurement of  $B^0$  - anti- $B^0$  mixing at the CERN  $p$  anti- $p$  collider. Phys.Lett.B262:171-178,1991.
- C. Albajar et al., A search for rare B meson decays at the CERN  $p$  anti- $p$  collider. Phys.Lett.B262:163-170,1991.
- C. Albajar et al., Limits on t quark decay into charged Higgs from a direct search at the CERN  $p$  anti- $p$  collider. Phys.Lett.B257:459-468,1991.
- C. Albajar et al., J/psi and psi-prime production at the CERN  $p$  anti- $p$  collider. Phys.Lett.B256:112-120,1991.
- C. Albajar et al., Beauty production at the CERN  $p$  anti- $p$  collider. Phys.Lett.B256:121-128,1991.
- C. Albajar et al., Measurement of the ratio  $R = \frac{\sigma(W) Br(W \rightarrow \mu \nu)}{\sigma(Z) Br(Z \rightarrow \mu \mu)}$  and  $\gamma(W)$  total at the CERN proton-anti-proton collider. Phys.Lett.B253:503-510,1991.
- C. Albajar et al., Search for new heavy quarks in proton-anti-proton collisions at  $\sqrt{s} = 0.63$ -TeV. Z.Phys.C48:1-12,1990.
- C. Albajar et al., A study of the  $D^*$  content of jets at the CERN  $p$  anti- $p$  collider. Phys.Lett.B244:566-572,1990.
- C. Albajar et al., Intermittency studies in anti- $p$   $p$  collisions at  $\sqrt{s} = 630$  GeV. Nucl.Phys.B345:1-21,1990.
- C. Albajar et al., Experimental limit on the decay  $W^+ \rightarrow \pi^+ \gamma$  at the CERN proton-anti-proton collider. Phys.Lett.B241:283,1990.
- N. Bains et al., The UA1 upgrade calorimeter trigger processor. Nucl.Instrum.Meth.A292:401-423,1990.
- C. Albajar et al., Comparison of W and direct photon cross-sections at large transverse momenta. In Castiglione della Pescaia 1989, Proceedings, Proton-antiproton collider physics 254-267.
- C. Albajar et al., A study of the general characteristics of proton-anti-proton collisions at  $\sqrt{s} = 0.2$  TeV TO 0.9 TeV. Nucl.Phys.B335:261,1990.
- C. Albajar et al., Bose-Einstein correlations in anti- $p$   $p$  interactions at  $\sqrt{s} = 0.2$  TeV TO 0.9 TeV. Phys.Lett.B226:410,1989.
- S.A. Baird et al., The new UA1 calorimeter trigger processor. IEEE Trans.Nucl.Sci.36:364-369,1989.
- S.A. Baird et al., Fast two-dimensional cluster finding in particle physics. IEEE Trans.Nucl.Sci.36:370-374,1989.

- N. Bains et al., UA1 upgrade first level calorimeter trigger processor. Nucl.Instrum.Meth.A279:297-304,1989.
- C. Albajar et al., Studies of intermediate vector boson production and decay in UA1 at the CERN proton-anti-proton collider. Z.Phys.C44:15,1989.
- C. Albajar et al., Measurement of the bottom quark production cross-section in proton-anti-proton collisions at  $\sqrt{s} = 0.63$  TeV. Phys.Lett.B213:405,1988.
- C. Albajar et al., Direct photon production at the CERN proton-anti-proton collider. Phys.Lett.B209:385,1988.
- C. Albajar et al., Low mass dimuon production at the CERN proton-anti-proton collider. Phys.Lett.B209:397,1988.
- C. Albajar et al., Two-jet mass distributions at the CERN proton-anti-proton collider. Phys.Lett.B209:127,1988.
- C. Albajar et al., Production of low transverse energy clusters in anti-p p collisions at  $\sqrt{s} = 0.2$  TeV to 0.9 TeV and their interpretation in terms of QCD jets. Nucl.Phys.B309:405,1988.
- E. Eisenhandler et al., The new UA1 calorimeter trigger. In Manchester 1988, Proceedings, Techniques in Triggering and Data Acquisition, RAL 88-026 36-45.
- N. Bains et al., The new UA1 first level trigger processor. In Trieste 1988, Proceedings, The impact of digital microelectronics and microprocessors on particle physics 134-137.
- N. Bains et al., Fast two-dimensional electromagnetic cluster finding in the new UA1 first level trigger processor. In Trieste 1988, Proceedings, The impact of digital microelectronics and microprocessors on particle physics 274.
- C. Albajar et al., Study of heavy flavor production in events with a muon accompanied by jet(s) at the CERN proton - anti-proton collider. Z.Phys.C37:489,1988.
- C. Albajar et al., Search for new heavy quarks at the CERN proton-anti-proton collider. Z.Phys.C37:505,1988.
- C. Albajar et al., High transverse momentum J/psi production at the CERN proton - anti-proton collider. Phys.Lett.B200:380,1988.
- C. Albajar et al., Events with large missing transverse energy at the CERN collider: mass limits on supersymmetric particles. Phys.Lett.B198:261,1987.
- C. Albajar et al., Intermediate vector boson cross-sections at the CERN super proton synchrotron collider and the number of neutrino types. Phys.Lett.B198:271,1987.
- C. Albajar et al., Analysis of the highest transverse energy events seen in the UA1 detector at the p anti-p collider. Z.Phys.C36:33,1987.
- C. Albajar et al., Production of Ws with large transverse momentum at the CERN proton-anti-proton collider. Phys.Lett.B193:389,1987.
- C. Albajar et al., Search for B0 anti-B0 oscillations at the CERN proton-anti-proton collider. Phys.Lett.B186:247,1987.
- C. Albajar et al., Beauty production at the CERN proton-anti-proton collider. Phys.Lett.B186:237,1987.
- C. Albajar et al., Events with large missing transverse energy at the CERN collider:  $W \rightarrow \tau$ -neutrino decay and test of tau-mu e universality at  $Q^2 = m(W^2)$ . Phys.Lett.185B:233,1987.
- C. Albajar et al., Events with large missing transverse energy at the CERN collider: search for decays of  $W^{\pm}$  into heavy leptons and of  $Z^0$  into noninteracting particles. Phys.Lett.185B:241,1987.
- M.G. Albrow et al., A uranium scintillator calorimeter with plastic fiber readout. Nucl.Instrum.Meth.A256:23,1987.
- G. Arnison et al., Angular distributions for high mass jet pairs and a limit on the energy scale of compositeness for quarks from the CERN p anti-p collider. Phys.Lett.B177:244,1986.
- G. Arnison et al., Results on  $W^{\pm}$  and  $Z^0$  physics from the UA1 collaboration. Moriond 1986: Leptonic v.1:63.
- G. Arnison et al., Analysis of the fragmentation properties of quark and gluon jets at the CERN SPS p anti-p collider. Nucl.Phys.B276:253,1986.
- G. Arnison et al., Measurement of the inclusive jet cross-section at the CERN p anti-p collider. Phys.Lett.B172:461,1986.
- G. Arnison et al., Intermediate vector boson properties at the CERN super proton synchrotron collider. Europhys.Lett.1:327-345,1986.
- G. Arnison et al., Recent results on intermediate vector boson properties at the CERN super proton synchrotron collider. Phys.Lett.B166:484,1986.