Prof. Claudio Conta

full list of publications (last update: February 2013)

a) International journals


1) Gargamelle Collaboration:  
*Observation of elastic hyperon production by antineutrino*  

2) Gargamelle Collaboration:  
*Search for elastic muon-neutrino electron scattering*  

3) Gargamelle Collaboration:  
*Observation of neutrino-like interactions without muon or electron in the Gargamelle neutrino experiment*  

4) Gargamelle Collaboration:  
*Measurement of the neutrino-nucleon and antineutrino-nucleon total cross sections*  

5) Gargamelle Collaboration:  
*High energy electronic neutrino ($\nu_e$) and antineutrino ($\bar{\nu}_e$) interactions*  

6) Gargamelle Collaboration:  
*Observation of neutrino-like interactions without muon or electron in the Gargamelle neutrino experiment*  
Nuclear Physics B73 (1974) 1

7) Gargamelle Collaboration:  
*Experimental study of structure functions and sum rules in charge-changing interactions of neutrinos and antineutrinos on nucleons*  
Nuclear Physics B85 (1975) 269

*The double-diffractive reaction pp $\rightarrow (p \pi^+ \pi^-) (p \pi^- \pi^+)$ in the ISR energy range: cross section and test of factorization*  
Lettere al Nuovo Cimento 14 (1975) 345

*Mass spectra and double N* excitation from the double-diffractive reaction*
$pp \rightarrow (p \pi^+ \pi^-) (p \pi^+ \pi^-)$ at the ISR
Lettere al Nuovo Cimento 14 (1975) 353
*t-dependence and slope-mass correlation of the double-diffractive reaction* $pp \rightarrow (p \pi^+ \pi^-)(p \pi^+ \pi^-)$ *at the ISR*
*Lettere al Nuovo Cimento* 14 (1975) 359

11) $\nu$ - Gargamelle Collaboration:
*Limits on the mass and lifetime of long-lived heavy leptons*

*First results on diffraction dissociation of neutrons at the ISR*

13) G. C. Mantovani, M. Cavalli Sforza, C. Conta, M. Fraternali, G. Goggi, F. Pastore, A. Rimoldi, B. Rossini:
*Observation of neutron-neutron interactions with double diffraction dissociation at the ISR*

*The s-dependence of proton double diffraction dissociation at the CERN Intersecting Storage Rings*

*Study of charge-exchange double dissociation of proton at the CERN Intersecting Storage Rings*

*Evidence for inelastic propagators in proton-deuteron elastic scattering at* $(s)_{1/2} = 63$ GeV

*Observation of a narrow minimum of inelastic shadow effects in deuteron-deuteron elastic scattering at* $(s)_{1/2} = 53$ GeV

*New results on nucleon double diffraction at the CERN ISR*
*Analysis of the charge exchange reaction $pp \rightarrow (p \, \pi^+) \, (p \, \pi^-)$ and of $\Delta^{++} \Delta^0$ production at the CERN ISR*

20) G. Goggi, M. Cavalli Sforza, C. Conta, M. Fraternali, G.C. Mantovani, F. Pastore, G. Alberi:
*Inelastic intermediate states in proton-deuteron and deuteron-deuteron elastic collisions at the ISR*
Nuclear Physics B149 (1979) 381.

*Features of coherent neutron diffraction on deuterons at the ISR*
Nuovo Cimento Letters 24 (1979) 374

*Peripherality of nucleon diffraction dissociation from coherent n-d interactions at the ISR*

*Analysis of single and coherent nucleon diffraction dissociation at ISR energies*

*Analysis of double diffraction dissociation in nucleon-nucleon collision at the CERN ISR*

**UA2 Collaboration : Bern - CERN - Copenhagen - Orsay - Pavia - Saclay**

25) UA2 Collaboration:
*Inclusive $\pi^0$ production at the CERN $p - \bar{p}$ collider*

26) UA2 Collaboration:
*Observation of very large transverse momentum jets at the CERN $p - \bar{p}$ collider*

27) UA2 Collaboration:
*Inclusive charged particle production at the CERN $p - \bar{p}$ collider*

28) UA2 Collaboration:
*A search for relativistic particles with fractional electric charge at the CERN $p - \bar{p}$ collider*
29) UA2 Collaboration:
Observation of single isolated electrons of high transverse momentum in events with missing transverse energy at the CERN p - p collider

30) UA2 Collaboration:
Measurement of production and properties of jets at the CERN p - p collider

31) UA2 Collaboration:
Evidence for $Z^0 \rightarrow e^+e^-$ at the CERN p - p collider

The system of forward-backward drift chambers in the UA2 detector

33) UA2 Collaboration:
A study of high transverse momentum electrons produced in p - p collisions at 540 GeV

34) UA2 Collaboration:
Observation of electrons produced in association with hard jets and large missing transverse momentum in p- p collisions at $(s)^{1/2} = 540$ GeV

35) UA2 Collaboration:
Measurement of very large transverse momentum jet production at the CERN p - p collider

36) UA2 Collaboration:
Measurement of jet production properties at the CERN p - p collider

37) UA2 Collaboration:
Measurement of jet fragmentation properties at the CERN p - p collider

38) UA2 Collaboration:
Inclusive particle production in the transverse momentum range between 0.25 and 40 GeV/c at the CERN p - p collider
39) UA2 Collaboration:
Study of electron pairs below the $Z^0$ mass produced in $p - \bar{p}$ collisions at $(s)^{1/2} = 540$ GeV

40) UA2 Collaboration:
A new search for relativistic particles with fractional electric charge at the CERN $p - \bar{p}$ collider

**UA2 Collaboration**: Bern - CERN - Copenhagen - Heidelberg - Orsay - Pavia - Perugia - Pisa – Saclay

41) UA2 Collaboration:
Measurement of the $(s)^{1/2}$ dependence of jet production at the CERN $p - \bar{p}$ collider

42) UA2 Collaboration:
Experimental study of the emergence of two-jet dominance in $p - \bar{p}$ collisions at $(s)^{1/2} = 630$ GeV

43) UA2 Collaboration:
Measurement of $W^\pm$ and $Z^0$ properties at the CERN $p - \bar{p}$ collider

44) UA2 Collaboration:
A study of three-Jet events at the CERN $p - \bar{p}$ collider

45) UA2 Collaboration:
Direct photon production at the CERN $p - \bar{p}$ collider

46) UA2 Collaboration:
Measurement of the Standard Model parameters from a study of $W$ and $Z$ bosons

47) UA2 Collaboration:
Search for decays of the $W^\pm$ and $Z^0$ bosons into quark-antiquark pairs

48) UA2 Collaboration:
Measurement of $W$ and $Z$ production properties at CERN $p - \bar{p}$ collider

49) UA2 Collaboration:
Jet measures and hadronic event shapes at the CERN $p - \bar{p}$ collider
50) UA2 Collaboration:
Search for exotic processes at the CERN p - p collider

51) UA2 Collaboration:
Direct photon production in p - p collisions at (s)^1/2 = 630 GeV

52) UA2 Collaboration:
Measurement of the strong coupling constant α_s from a study of W bosons produced in association with Jets

53) UA2 Collaboration:
A search for squark and gluino production at the CERN p - p collider

54) UA2 Collaboration:
Search for top quark production at the CERN p - p collider

End-Cap Proportional Tube Chambers for the Upgraded UA2 Experiment


56) UA2 Collaboration:
Search for Scalar Electrons and Winos at the CERN p - p collider

57) UA2 Collaboration:
Measurement of W and Z production cross sections at the CERN p - p collider

58) UA2 Collaboration:
A precise determination of the W and Z masses at the CERN p - p collider

59) UA2 Collaboration:
Measurement of the transverse momentum distribution of W and Z bosons at the CERN p - p collider
60) UA2 Collaboration:
A measurement of two-jet decays of the W and Z bosons at the CERN $p - \bar{p}$ collider

61) UA2 Collaboration:
Inclusive jet cross-section and a search for quark compositeness at the CERN $p - \bar{p}$ collider

62) UA2 Collaboration:
A Measurement of direct photon production cross section at the CERN $p - \bar{p}$ collider

63) UA2 Collaboration:
A determination of the strong coupling constant $\alpha_s$ from W production at the CERN $p - \bar{p}$ collider

64) UA2 Collaboration:
A study of multi-jet events at the CERN $p - \bar{p}$ collider and a search for double parton scattering

65) UA2 Collaboration:
A measurement of electron-tau universality from decays of intermediate vector bosons at the CERN $p - \bar{p}$ collider

66) UA2 Collaboration:
A search for scalar leptoquarks at the CERN $p - \bar{p}$ collider

67) UA2 Collaboration:
An improved determination of the ratio of W and Z masses at the CERN $p - \bar{p}$ collider

68) UA2 Collaboration:
A measurement of the W and Z production cross sections and a determination of $\Gamma_W$ at the CERN $p - \bar{p}$ collider

69) UA2 Collaboration:
Direct measurement of the $W:\gamma$ coupling at the CERN $p - \bar{p}$ collider
70) UA2 Collaboration:
*Experimental limit on the decay* $W^\pm \rightarrow \pi^\pm \gamma$ *at the CERN p - p collider*

71) UA2 Collaboration:
*A search for charged Higgs from top quark decay at the CERN p - p collider*

72) UA2 Collaboration:
*A measurement of single and double prompt photon production at the CERN p - p collider*

73) UA2 Collaboration:
*Study of electron pair production below the Z mass at the CERN p - p collider*

74) UA2 Collaboration:
*Measurement of the gluon structure function from direct photon data at the CERN p - p collider collider*

75) UA2 Collaboration:
*A search for new intermediate vector bosons and excited quarks decaying to two-jets at the CERN p - p collider collider*
Nuclear Physics B400 (1993) 3-22

76) D. Autiero et al.:
*A high stability light emitting diode system for monitoring lead-glass electromagnetic calorimeters*

77) D. Autiero et al.:
*The electromagnetic calorimeter of the NOMAD experiment*

78) D. Autiero et al.:
*Test beam performance of the electromagnetic calorimeter of the NOMAD experiment*


79) NOMAD Collaboration:
*The NOMAD experiment at the CERN SPS*
80) D. Autiero et al. :
A study of the transverse fluctuations of hadronic showers in the NOMAD electromagnetic calorimeter

81) NOMAD Collaboration :
Search for a new gauge boson in $\pi^0$ decays

82) NOMAD collaboration :
A search for $\nu_{\mu} \rightarrow \nu_{\tau}$ oscillations using the NOMAD detector

83) A. Biscossa et al. :
Calypso: a full-scale MDT prototype for the ATLAS muon spectrometer

84) NOMAD collaboration :
Precision measurement of scaled momentum, charged multiplicity, and thrust in $\nu_{\mu}$ and $\bar{\nu}_{\mu}$ interactions

85) A. Biscossa et al. :
Construction and test of a full-scale prototype of an ATLAS muon spectrometer tracking chamber

86) D. Autiero et al. :
Parameterization of $e$ and $\gamma$ initiated showers in the NOMAD lead-glass calorimeter

87) NOMAD collaboration :
A more sensitive search for $\nu_{\mu} \rightarrow \nu_{\tau}$ oscillations in NOMAD

88) NOMAD collaboration :
Limit on $\nu_{e} \rightarrow \nu_{\tau}$ oscillations from the NOMAD experiment

89) NOMAD collaboration :
Search for eV (pseudo)scalar penetrating particles in the SPS neutrino beam

90) NOMAD collaboration :
Updated results from the $\nu_{\tau}$ appearance in NOMAD
91) NOMAD collaboration:
Neutrino production of opposite sign dimuons in the NOMAD experiment

92) NOMAD collaboration:
Measurement of the $\Lambda$ polarization in $\nu_\mu$ charged currents interactions
in the NOMAD experiment
Nuclear Physics B588 (2000) 3

93) NOMAD collaboration:
Search for heavy neutrinos mixing with tau neutrinos

94) NOMAD collaboration:
Inclusive production of $\rho^0(770)$, $f_0(980)$ and $f_2(1270)$ mesons
in $\nu_\mu$ charged currents interactions
Nuclear Physics B601 (2001) 3-23

95) NOMAD collaboration:
Measurement of the anti-$\Lambda$ polarization in $\nu_\mu$ charged currents interactions in the NOMAD experiment
Nuclear Physics B605 (2001) 3-14

96) NOMAD collaboration:
A study of backward going $p$ and $\pi^-$ in CC interactions
with the NOMAD detector
Nuclear Physics B609 (2001) 255-279

97) NOMAD collaboration:
Final NOMAD results from on $\nu_\mu \rightarrow \nu_\tau$ and $\nu_e \rightarrow \nu_\tau$ oscillations
including a new search for $\nu_\tau$ appearance using hadronic $\tau$ decays
Nuclear Physics B611 (2001) 3-39

98) NOMAD collaboration:
A study of strange particle production in $\nu_\mu$ charged current interactions in the NOMAD experiment
Nuclear Physics B621 (2002) 3-34

99) NOMAD collaboration:
Study of $D^{*-}$ production in $\nu_\mu$ charged current interactions
in the NOMAD experiment

100) NOMAD collaboration:
New results on a search for a 33.9 MeV/c$^2$ neutral particle from
$\pi^-$ decay in the NOMAD experiment
101) NOMAD collaboration:
*Prediction of neutrino fluxes in the NOMAD experiment*

102) NOMAD collaboration:
*Search for $\nu_\mu \rightarrow \nu_e$ oscillations in the NOMAD experiment*

103) NOMAD collaboration:
*Bose-Einstein Correlations in Charged Current $\nu_\mu$ interactions in the NOMAD experiment at CERN.*

104) NOMAD collaboration:
*A Study of Strange Particles Produced in $\nu_\mu$ Neutral Current Interactions in the NOMAD experiment.*
Nuclear Physics B700 (2004) 51-68

105) NOMAD collaboration:
*Production properties of $K^*(892)^\pm$ vector mesons and their spin alignment as measured in the NOMAD experiment.*

106) NOMAD collaboration:
*Search for the exotic $\Theta^*$ resonance in the NOMAD experiment.*

107) NOMAD collaboration:
*A precise measurement of the muon neutrino-nucleon inclusive charged current cross-section off an isoscalar target in the energy range $2.5 < E_\nu < 40$ GeV by NOMAD.*

**ATLAS Collaboration:** 178 international institutions

108) ATLAS collaboration:
*The ATLAS experiment at the CERN Large Hadron Collider,*

109) NOMAD collaboration:
*A study of quasi-elastic muon neutrino and antineutrino scattering in the NOMAD experiment.*
110) NOMAD collaboration:
A measurement of coherent neutral pion production in neutrino neutral current interactions in the NOMAD experiment.
Physics Letters B682 (2009) 177-184

111) ATLAS collaboration:
Charged-particle multiplicities in pp interactions at $\sqrt{s}=900$ GeV measured with the ATLAS detector at LHC.

112) ATLAS collaboration:
The ATLAS Simulation Infrastructure

113) ATLAS collaboration:
Performance of the ATLAS detector using first collision data.
JHEP 09 (2010) 056

114) ATLAS collaboration:
Commissioning of the ATLAS muon spectrometer with cosmic rays

115) ATLAS collaboration:
Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC

116) ATLAS collaboration:
Observation of a centrality-dependent dijet asymmetry in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC

117) ATLAS collaboration:
Measurement of the $W \rightarrow \ell \nu$ and $Z/\gamma^* \rightarrow \ell \ell$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
JHEP 12 (2010) 060

118) ATLAS collaboration:
Search for Quark Contact Interactions in Dijet Angular Distributions in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC
Physics Letters B 694 (2011) 327-345

119) ATLAS collaboration:
Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector
120) ATLAS collaboration:  
*Studies of the performance of the ATLAS detector using cosmic-ray muons*  

121) ATLAS collaboration:  
*Measurement of underlying event characteristics using charged particles in pp collisions at $\sqrt{s} = 900$ GeV and 7 TeV with the ATLAS detector*  
Physical Review D 83, 112001 (2011)

122) ATLAS collaboration:  
*Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s}=7$ TeV*  

123) ATLAS collaboration:  
*Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector*  

124) ATLAS collaboration:  
*Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*  
Physical Review D 83, 052005 (2011)

125) ATLAS collaboration:  
*Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC*  

126) ATLAS collaboration:  
*Measurement of the production cross section for W-bosons in association with jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*  
Physics Letters B 698 (2011) 325-345

127) ATLAS collaboration:  
*Measurement of the centrality dependence of J/Psi yields and observation of Z production in lead-lead collisions with the ATLAS detector at the LHC*  

128) ATLAS collaboration:  
*Study of Jet Shapes in Inclusive Jet Production in pp Collisions at $\sqrt{s} = 7$ TeV using the ATLAS Detector*  
Physical Review D 83, 052003 (2011)

129) ATLAS collaboration:  
*Luminosity Determination in pp Collisions at $\sqrt(s)=7$ TeV using the ATLAS Detector at the LHC*  
130) ATLAS collaboration: 
*Search for supersymmetry using final states with one lepton, jets, and missing transverse momentum with the ATLAS detector in \( \sqrt{s} = 7 \) TeV pp collisions* 

131) ATLAS collaboration: 
*Measurement of Dijet Azimuthal Decorrelations in pp Collisions at \( \sqrt{s} = 7 \) TeV* 

132) ATLAS collaboration: 
*Search for Massive Long-lived Highly Ionising Particles with the ATLAS Detector at the LHC* 

133) ATLAS collaboration: 
*Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in \( \sqrt{s} = 7 \) TeV proton-proton collisions* 
Physics Letters B 701 (2011) 186-203

134) ATLAS collaboration: 
*Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at \( \sqrt{s} = 7 \) TeV with the ATLAS detector* 
Physics Letters B 701 (2011) 50-69

135) ATLAS collaboration: 
*Measurements of underlying event properties using neutral and charged particles in p-p collisions at \( \sqrt{s} = 900 \) GeV and \( \sqrt{s} = 7 \) TeV with the ATLAS detector at the LHC* 

136) ATLAS collaboration: 
*Search for stable hadronising squarks and gluinos with the ATLAS experiment at LHC* 
Physics Letters B 701 (2011) 1 -19

137) ATLAS collaboration: 
*Measurement of the W charge asymmetry in the \( W \rightarrow \mu \nu \) decay mode in pp collisions at \( \sqrt{s} = 7 \) TeV with the ATLAS detector* 
Physics Letters B 701 (2011) 31 - 49

138) ATLAS collaboration: 
*A Search for New Physics in Dijet Mass and Angular Distributions in pp Collisions at \( \sqrt{s} = 7 \) TeV measured with the ATLAS Detector* 
New Journal of Physics 13 (2011) 053044

139) ATLAS collaboration: 
*Search for supersymmetry in pp collisions at \( \sqrt{s} = 7 \) TeV in final states with missing transverse momentum and b-jets* 
140) ATLAS collaboration: 
*Search for a heavy particle decaying into an electron and a muon with the ATLAS detector in √s = 7 TeV pp collisions at the LHC*

141) ATLAS collaboration: 
*Search for high mass dilepton resonances in pp collisions at √s= 7 TeV with the ATLAS experiment*

142) ATLAS collaboration: 
*Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in √s = 7 TeV proton-proton collisions with the ATLAS experiment*

143) ATLAS collaboration: 
*Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in √s= 7 TeV proton-proton collisions with the ATLAS detector*

144) ATLAS collaboration: 
*Measurement of the Inelastic Proton-Proton Cross-Section at √s = 7 TeV with the ATLAS Detector*
Nature Comm. 2 (2011) 463

145) ATLAS collaboration: 
*Measurement of the differential cross-sections of inclusive, prompt and non-prompt J/ψ production in proton-proton collisions at √s = 7 TeV*
Nuclear Physics B 850 (2011) 387-444

146) ATLAS collaboration: 
*Search for Contact Interactions in Dimuon Events from pp Collisions at √s = 7 TeV with the ATLAS Detector*
Physical Review D 84, 011101 (R) (2011)

147) ATLAS collaboration: 
*Search for pair production of first or second generation leptoquarks in proton-proton collisions at √s=7 TeV using the ATLAS detector at the LHC*
Physical Review Letters 107, 041802 (2011)

148) ATLAS collaboration: 
*Measurement of the W⁺W⁻ cross section in √s = 7 TeV pp collisions with ATLAS*
Physical Review Letters 107, 041802 (2011)
149) ATLAS collaboration:  
*Measurement of $W\gamma$ and $Z\gamma$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector*  
JHEP 09 (2011) 072

150) ATLAS collaboration:  
*Limits on the production of the Standard Model Higgs Boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*  

151) ATLAS collaboration:  
*Search for Heavy Long-Lived Charged Particles with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV*  
Physics Letters B 703 (2011) 428-446

152) ATLAS collaboration:  
*Measurement of the $Y(1S)$ Production Cross-Section in pp Collisions at $\sqrt{s} = 7$ TeV in ATLAS*  

153) ATLAS collaboration:  
*Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions*  

154) ATLAS collaboration:  
*Search for Diphoton Events with Large Missing Transverse Energy with 36 pb$^{-1}$ of 7 TeV Proton-Proton Collision Data with the ATLAS Detector*  

155) ATLAS collaboration:  
*Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector*  

156) ATLAS collaboration:  
*Measurement of dijet production with a veto on additional central jet activity in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector*  
JHEP 09 (2011) 053

157) ATLAS collaboration:  
*Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy*  

158) ATLAS collaboration:  
*Measurement of the transverse momentum distribution of $Z / \gamma^*$ bosons in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector*  
159) ATLAS collaboration: 
Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy $\sqrt{s}=7$ TeV with the ATLAS detector 
Physical Review D 84, 054001 (2011)

160) ATLAS collaboration: 
Search for neutral MSSM Higgs bosons decaying to $\tau^+ \tau^-$ pairs in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector 

161) ATLAS collaboration: 
Measurement of the inclusive isolated prompt photon cross-section in pp collisions at $\sqrt{s}= 7$ TeV using 35 pb$^{-1}$ of ATLAS data 
Physics Letters B 706 (2011) 150-167

162) ATLAS collaboration: 
Inclusive search for same-sign dilepton signatures in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector 
JHEP 10 (2011) 107

163) ATLAS collaboration: 
Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb$^{-1}$ of pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector 

164) ATLAS collaboration: 
Search for dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector 
Physical Review Letters 107, 272002 (2011)

165) ATLAS collaboration: 
Measurement of the $Z \to \tau^+ \tau^-$ Cross Section with the ATLAS Detector 
Physical Review D 84, 112006 (2011)

166) ATLAS collaboration: 
Search for the Standard Model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC 
Physics Letters B 705 (2011) 452-470

167) ATLAS collaboration: 
Search for a heavy neutral particle decaying into an electron and a muon using 1 fb$^{-1}$ of ATLAS data 

168) ATLAS collaboration: 
Search for a Standard Model Higgs boson in the $H \to ZZ \to l^+ l^- \nu \bar{\nu}$ decay channel with the ATLAS detector 
169) ATLAS collaboration:  
*Search for the Higgs boson in the $H \rightarrow WW \rightarrow l \nu jj$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*  
*Phys.Rev.Lett. 107 (2011) 231801*

170) ATLAS collaboration:  
*Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ(*) \rightarrow 4l$ with the ATLAS detector*  

171) ATLAS collaboration:  
*Measurement of the inclusive and dijet cross-sections of $b$-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*  

172) ATLAS collaboration:  
*Search for massive colored scalars in four-jet final states in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS Detector*  

173) ATLAS collaboration:  
*Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector*  
*JHEP 1111 (2011) 099*

174) ATLAS collaboration:  
*Measurement of the isolated di-photon cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*  
*Physical Review D 85, 012003 (2012)*

175) ATLAS collaboration:  
*Measurement of the $W \rightarrow \tau \nu$ Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment*  
*Physics Letters B 706 (2012) 276-294*

176) ATLAS collaboration:  
*Search for a heavy Standard Model Higgs boson in the channel $H \rightarrow ZZ \rightarrow l^{-}l^{+}q\bar{q}$ using the ATLAS detector*  
*Physics Letters B 707 (2012) 27-45*

177) ATLAS collaboration:  
*Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector*  
178) ATLAS collaboration: 
_measurement of the cross-section for b-jets produced in association with a Z boson at \( \sqrt{s} = 7 \) TeV with the ATLAS detector 

179) ATLAS collaboration: 
_\( K^0_s \) and \( \Lambda \) production in pp interactions at \( \sqrt{s} = 0.9 \) and 7 TeV measured with the ATLAS detector at the LHC 

180) ATLAS collaboration: 
_A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at \( \sqrt{s} = 7 \) TeV with ATLAS 

181) ATLAS collaboration: 
_Performance of missing transverse momentum reconstruction in proton-proton collisions at \( \sqrt{s} = 7 \) TeV with ATLAS 

182) ATLAS collaboration: 
_Measurement of the top quark pair production cross section in pp collisions at \( \sqrt{s} = 7 \) TeV in dilepton final states with ATLAS 

183) ATLAS collaboration: 
/Search for New Phenomena in \( \bar{t}t \) Events With Large Missing Transverse Momentum in Proton-Proton Collisions at \( \sqrt{s} = 7 \) TeV with the ATLAS Detector 

184) ATLAS collaboration: 
_Measurement of the inclusive \( W^\pm \) and \( Z/\gamma \) cross sections in the electron and muon decay channels in pp collisions at \( \sqrt{s} = 7 \) TeV with the ATLAS detector 

185) ATLAS collaboration: 
_Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at \( \sqrt{s_{NN}} = 2.76 \) TeV with the ATLAS detector 

186) ATLAS collaboration: 
_Measurement of the Transverse Momentum Distribution of \( W \) Bosons in pp Collisions at \( \sqrt{s} = 7 \) TeV with the ATLAS Detector 
_Physical Review D 85, 012005 (2012)

187) ATLAS collaboration: 
/Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in \( \sqrt{s} = 7 \) TeV proton-proton collisions 
188) ATLAS collaboration: 
*Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in $\sqrt{s} = 7$ TeV pp collisions using 1 fb$^{-1}$ of ATLAS data*
*Phys.Rev. D85 (2012) 012006*

189) ATLAS collaboration: 
*Search for New Physics in the Dijet Mass Distribution using 1 fb$^{-1}$ of pp Collision Data at $\sqrt{s} = 7$ TeV collected by the ATLAS Detector*

190) ATLAS collaboration: 
*Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*

191) ATLAS collaboration: 
*Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*

192) ATLAS collaboration: 
*Performance of the ATLAS Trigger System in 2010*

193) ATLAS collaboration: 
*Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data*

194) ATLAS collaboration: 
*Measurement of the ZZ production cross section and limits on anomalous neutral triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*

195) ATLAS collaboration: 
*Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions*

196) ATLAS collaboration: 
*A measurement of the material in the ATLAS inner detector using secondary hadronic interactions*
*JINST 7 (2012) P01013*

197) ATLAS collaboration: 
*Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC*
198) ATLAS collaboration:
*Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS*

199) ATLAS collaboration:
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*Phys. Rev. D85 (2012) 032009*

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202) ATLAS collaboration:
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205) ATLAS collaboration:
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210) ATLAS collaboration:
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218) ATLAS collaboration:  
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220) ATLAS collaboration:  
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222) ATLAS collaboration:  
*Combined search for the Standard Model Higgs boson using up to 4.9 fb\(^{-1}\) of pp collision data at \( \sqrt{s} = 7 \) TeV with the ATLAS detector at the LHC*  

223) ATLAS collaboration:  
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230) ATLAS collaboration:
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*Determination of the strange quark density of the proton from ATLAS data on W\( \rightarrow l \nu \) and Z\( \rightarrow l l \) cross-sections*  

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JHEP 05 (2012) 128

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247) ATLAS collaboration:  
*Measurement of the Top Quark Mass with the Template Method in the \( \tilde{t} \, \tilde{t} \rightarrow \text{lepton} + \text{jets} \) Channel using ATLAS Data*  
248) ATLAS collaboration:
Measurement of the WW cross section in \(\sqrt{s} = 7\) TeV pp collisions at ATLAS and limits on anomalous gauge couplings

249) ATLAS collaboration:
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250) ATLAS collaboration:
Search for Events with Large Missing Transverse Momentum, Jets, and at Least Two Tau Leptons in 7 TeV Proton-Proton Collision Data with the ATLAS Detector

251) ATLAS collaboration:
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252) ATLAS collaboration:
Search for pair production of a new quark \(b'\) that decays to a Z boson and a bottom quark with the ATLAS detector

253) ATLAS collaboration:
Search for resonant WZ production in the WZ to \(\ell^{-} v \ell^{+}\ell'\ell'\) channel in \(\sqrt{s} = 7\) TeV pp collisions with the ATLAS detector

254) ATLAS collaboration:
Search for a charged Higgs boson decaying via \(H^{+} \rightarrow \nu_{\tau} + \tau^{-}\) in \(\bar{t}t\) events using 4.6 fb\(^{-1}\) of pp collision data at \(\sqrt{s} = 7\) TeV with the ATLAS detector
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255) ATLAS collaboration:
Search for supersymmetry with jets, missing transverse momentum and at least one hadronically decaying \(\tau\) lepton in proton-proton collisions at \(\sqrt{s} = 7\) TeV with the ATLAS detector

256) ATLAS collaboration:
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257) ATLAS collaboration:
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258) ATLAS collaboration:
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Supersymmetry Models with the ATLAS Detector in pp Collisions at √s =7 TeV

259) ATLAS collaboration:
Measurement of tau polarization in W → τ ντ decays with the ATLAS detector in pp collisions at √s = 7 TeV

260) ATLAS collaboration:
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261) ATLAS collaboration:
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262) ATLAS collaboration:
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263) ATLAS collaboration:
Measurement of the top quark pair production cross section with ATLAS in pp collisions at √s = 7 TeV using final states with an electron or a muon and a hadronically decaying lepton

264) ATLAS collaboration:
Measurement of Wγ and Zγ production cross sections in pp collisions at √s = 7 TeV and limits on anomalous triple gauge couplings with the ATLAS detector

265) ATLAS collaboration:
Measurement of W boson polarization in top quark decays with the ATLAS detector
JHEP 06 (2012) 088

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267) ATLAS collaboration:
A search for tt resonances with the ATLAS detector in 2.05 fb⁻¹ of proton-proton collisions at √s = 7 TeV
268) ATLAS collaboration:
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270) ATLAS collaboration:
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Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7fb$^{-1}$ of $\sqrt{s} = 7$ TeV proton-proton collisions
JHEP 1207 (2012) 167

273) ATLAS collaboration:
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275) ATLAS collaboration:
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279) ATLAS collaboration:
Search for the Standard Model Higgs boson produced in association with a vector boson and decaying to a b-quark pair with the ATLAS detector

280) ATLAS collaboration:
Combined search for the Standard Model Higgs boson in pp collisions at \( \sqrt{s} = 7 \text{ TeV} \) with the ATLAS detector

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JHEP 1209 (2012) 041

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Measurement of the \( \Lambda_b \) lifetime and mass in the ATLAS experiment

283) ATLAS collaboration:
Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector

284) ATLAS collaboration:
Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at \( \sqrt{s} = 7 \text{ TeV} \)

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Search for magnetic monopoles in \( \sqrt{s} = 7 \text{ TeV} \) pp collisions with the ATLAS detector

286) ATLAS collaboration:
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287) ATLAS collaboration:
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JHEP 12 (2012) 072

289) ATLAS collaboration:  
Underlying event characteristics and their dependence on jet size of charged-particle jet events in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector  

290) ATLAS collaboration:  
Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using 4.7 fb$^{-1}$ of $\sqrt{s} = 7$ TeV proton-proton collision data  

291) ATLAS collaboration:  
Measurement of $W^\pm Z$ Production in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector  

292) ATLAS collaboration:  
Search for a supersymmetric partner to the top quark in final states with jets and missing transverse momentum at $\sqrt{s} = 7$ TeV with the ATLAS detector  

293) ATLAS collaboration:  
Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead–lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector  

294) ATLAS collaboration:  
Search for direct top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 7$ TeV $pp$ collisions using 4.7 fb$^{-1}$ of ATLAS data  

295) ATLAS collaboration:  
Search for new phenomena in the WW to $\ell \ \ell' \ \nu \ \nu'$ final state in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector  

296) ATLAS collaboration:  
Search for direct slepton and gaugino production in final states with two leptons and missing transverse momentum with the ATLAS detector in $pp$ collisions at $\sqrt{s} = 7$ TeV  
ATLAS collaboration:
Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in \(\sqrt{s} = 7\) TeV pp collisions with the ATLAS detector
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Search for light scalar top quark pair production in final states with two leptons with the ATLAS detector in \(\sqrt{s} = 7\) TeV proton-proton collisions

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Further search for supersymmetry at \(\sqrt{s} = 7\) TeV in final states with jets, missing transverse momentum and isolated leptons with the ATLAS detector

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JHEP11 (2012) 033

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Search for high-mass resonances decaying to dilepton final states in pp collisions at \(\sqrt{s} = 7\) TeV with the ATLAS detector
JHEP11 (2012) 138

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Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC
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Search for dark matter candidates and large extra dimensions in events with a photon and missing transverse momentum in pp collision data at \(\sqrt{s} = 7\) TeV with the ATLAS detector
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308) ATLAS collaboration:
Search for Displaced Muonic Lepton Jets from light Higgs boson decay in proton-proton collisions at √s = 7 TeV with the ATLAS detector
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310) ATLAS collaboration:
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311) ATLAS collaboration:
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JHEP01 (2013) 131

314) ATLAS collaboration:
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JHEP12 (2012) 124
315) ATLAS collaboration:
Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at $\sqrt{s}=7$ TeV

316) ATLAS collaboration:
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JHEP 12 (2012) 086

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318) ATLAS collaboration:
Search for anomalous production of prompt like-sign lepton pairs at $\sqrt{s}=7$ TeV with the ATLAS detector
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319) ATLAS collaboration:
Search for doubly-charged Higgs bosons in like-sign dilepton final states at $\sqrt{s}=7$ TeV with the ATLAS detector

320) ATLAS collaboration:
Search for pair production of a heavy top-like quarks decaying to a high-$p_TW$ boson and a $b$ quark in the lepton plus jets final state at $\sqrt{s}=7$ TeV with the ATLAS detector

321) ATLAS collaboration:
Jet energy resolution in proton-proton collisions at $\sqrt{s}=7$ TeV recorded in 2010 with the ATLAS detector
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323) ATLAS collaboration:
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324) ATLAS collaboration:
A Massive Particle Consistent with the Standard Model Higgs Boson observed with the ATLAS Detector at the Large Hadron Collider
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325) ATLAS collaboration:
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326) ATLAS collaboration:
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327) ATLAS collaboration:
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328) ATLAS collaboration:
Search for supersymmetry in events with photons, bottom quarks, and missing transverse momentum in proton-proton collisions at a centre-of-mass energy of 7 TeV with the ATLAS detector

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Measurement of isolated-photon pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
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331) ATLAS collaboration
Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s} = 7$ TeV
JHEP01 (2013) 116

332) ATLAS collaboration:
Measurement of ZZ production in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous ZZZ and ZZ$\gamma$ couplings with the ATLAS detector
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333) ATLAS collaboration:
Search for new phenomena in events with three charged leptons at $\sqrt{s} = 7$ TeV with the ATLAS detector
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*Search for the neutral Higgs bosons of the Minimal Supersymmetric Standard Model in pp collisions at √s = 7 TeV with the ATLAS detector* 
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*Measurement of Upsilon production in 7 TeV pp collisions at ATLAS* 
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336) ATLAS collaboration: 
*Measurement of the tt production cross section in the tau+jets channel using the ATLAS detector* 
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337) ATLAS collaboration: 
*Search for a heavy narrow resonance decaying to e-μ, e-τ or μ-τ with the ATLAS detector in √s = 7 TeV pp collisions at the LHC* 
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*Search for charged Higgs bosons through the violation of lepton universality in ttbar events using pp collision data at √s = 7 TeV with the ATLAS experiment.* 
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339) ATLAS collaboration: 
*Measurement of angular correlations in Drell-Yan lepton pairs to probe Z/γ * boson transverse momentum at √s = 7 TeV with the ATLAS detector.* 

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*Search for single b*-quark production with the ATLAS detector at √s = 7 TeV.* 
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344) ATLAS collaboration:
Search for long-lived, multi-charged particles in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector
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345) ATLAS collaboration:
Measurement of hard double-parton interactions in $W (\rightarrow \ell \nu ) + 2$ jet events at $\sqrt{s} = 7$ TeV with the ATLAS detector
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346) ATLAS collaboration:
Measurements of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC
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347) ATLAS collaboration:
Measurement of $k_T$ splitting scales in $W \rightarrow \ell \nu$ events at $\sqrt{s} = 7$ TeV with the ATLAS detector
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348) ATLAS collaboration:
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349) ATLAS collaboration:
Search for a light charged Higgs boson in the decay channel $H^+ \rightarrow c \bar{s} c$ in $\bar{t} t$ events using pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
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350) ATLAS collaboration:
Search for $WH$ production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
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351) ATLAS collaboration:
Improved luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC
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1) E. Fiorini, A. Pullia, C. Conta:
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INFN/TC - 70/1

2) C. Conta, A. Pullia:
*Muon fluxes along the shielding for a possible neutrino beam at Serpukov*
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3) UA2 Collaboration (CERN - Orsay - Pavia - Saclay):
*Addendum to the proposal to study antiproton-proton interactions at (s)^(1/2) = 540 GeV energy*

4) UA2 Collaboration (Bern - CERN - Orsay - Pavia - Pisa):
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2) C. Conta, A. Pullia:
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LVIII Congresso S.I.F., Cagliari (1972)

*The double-diffractive reaction $pp \rightarrow (p \pi^+ \pi^-)(p \pi^+ \pi^-)$ in the ISR energy range: cross section and test of factorization*
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8) UA2 Collaboration (Bern - CERN - Copenhagen - Orsay - Pavia - Saclay):
*Inclusive charged and neutral particle production and search for relativistic particles with fractional electric charge at the CERN $p$ - $\bar{p}$ collider*


14) C. Conta: *La fisica ai colliders adronici fra passato e futuro* LXXVIII Congresso S.I.F., Pavia (1992)

**d) Teaching textbooks**

1) C. Conta: *Appunti alle lezioni del corso di Fisica delle Particelle Elementari* FNT/DD - 1996, Pavia

2) C. Conta: *Esercizi di Elettromagnetismo* FNT/DD - 1997/03, Pavia

3) C. Conta: *Introduction to Modern Particle Physics* Pavia University Press, 2010

4) C. Conta: *Two main research fields in Modern Particle Physics* FNT/DD – 2010, Pavia