

# Curriculum Vitae

**Alain BLONDEL**

Born 26 march 1953 in Neuilly (92000 FRANCE), French citizen

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Professional address: Université de Genève  
Département de Physique Nucléaire et Corpusculaire  
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## **University grades and prizes:**

Engineer Ecole Polytechnique Paris (X1972)

DEA in Nuclear Physics, University of Orsay (1975)

3d cycle Thesis, University of Orsay (1976)

PhD in physics University of Orsay (1979)

Bronze Medal CNRS (1979) (given yearly to the best PhD thesis in Particle/Nuclear physics)

Prize of the Thibaud Foundation, Académie des Sciences, Arts et Belles Lettres de Lyon (1991)

Silver Medal CNRS (1995) (given yearly for the best achievement in the field)

Paul Langevin Prize from the French Academy of Sciences (1996)

Manne Siegbahn Medal from the Royal Academy of Science in Sweden (1997)

Prize from the foundation Jean Ricard by the French Physical Society (2004) (given yearly for best achievement in Physics)

## **Professional curriculum :**

1975	Stagiaire Ecole Polytechnique (Palaiseau, France) (PhD student grant)
1977	Attaché de Recherche au CNRS (Permanent position as junior researcher)
1980	Chargé de Recherche au CNRS (Permanent position as senior researcher)
1983-1985	Boursier CERN (CERN fellow)
1985-1989	Membre du Personnel CERN (CERN staff)
1989 →	Directeur de Recherches au CNRS (Director of research group)
1991 → 2000	Maître de Conférences à l'Ecole Polytechnique (Junior professor)
1995	Attaché scientifique CERN (CERN scientific associate)
2000	Professeur ordinaire à l'Université de Genève (Full professor)

## Scientific activities

- Began research in 1974 in the Gargamelle neutrino experiment with the study of background to the Neutral Current search. Diploma and PhD on charm production by neutrinos in Gargamelle.
- 1978 HERA e-p collider studies. Invented kinematic reconstruction method for CC events.
- 1979-1982 MarkII experiment at Spear and PEP. Liquid argon calorimeter calibration system, electron identification software. Measurement of B lifetime.
- 1983-1987 CDHS neutrino experiment at CERN: measurement of NC/CC ratio and  $\sin 2\theta_W$ .
- 1985-2001 ALEPH experiment at LEP (CERN). Personal work: led the groups in charge of hadronic cross-sections, measurement of the number of neutrino species, Z mass and width, W mass, jet charge asymmetries. The measurement of Z mass and width led to the prediction of top mass in spring 1994 exactly where evidence was found a few months later. Assumed responsibilities in the collaboration: Physics workshops, advisory board (i.e. executive board), Physics coordinator, editorial board. Close in 2000 with the organization (as physics coordinator) of the (perhaps successful) Higgs boson hunt.
- 1986-2000 LEP Polarization: Personal work on the beam spin polarimeter hardware, polarization optimisation, energy calibration by resonant depolarisation, effect of tides, trains and rain. This work was crucial for Z mass and width, and W mass. Inventor of scheme for longitudinal beam polarization experiments at LEP, the technique is still proposed for e+e- colliders.
- 1997-now: muon collider and neutrino factory; studies of beam polarization and storage ring instrumentation. Revisited the muon cooling demonstration experiment and proposed a feasible precision measurement technique (MICE); assembled collaboration, got experiment approved.
- Chair of MICE steering group 2001-2004; MICE Spokesman from 2004-2010 (re-elected 2007 and 2010).
- 1999-now initiated with B. Autin, S. Wojcicki, J. Wurtele the NUFACT workshop series, chair of the ECFA studies of future neutrino facilities. Scientific adviser of the BENE networking activity of CARE.
- 2005 Convener of the detector working group of the International Scoping Study (ISS) for Neutrino Factory and Superbeam;
- 2008-now member of the steering group of the International Design Study (IDS) for the Neutrino Factory.
- 2004-2009 Member of CERN Scientific Policy Committee.
- 2006: member of the CERN council strategy group.
- 1999-2008 HARP collaboration contact person and member of Steering Committee.
- 2001: created the Geneva neutrino group which participates in MICE, NA61 and T2K collaborations (ND280 TPC detector modules: test bench and mechanics)
- 2002: initiated with a few colleagues the European participation in K2K and T2K
- 2006: initiated NA61-T2K, chair of the NA61 collaboration board, organized funding
- 2006: contributed to put together the Swiss groups participation in T2K (TPC, Magnet, NA61)
- 2006-2009 Analysis coordinator of the T2K experiment.

**Publications**  
**Alain BLONDEL**  
**(2007 -2011)**

**Publications in refereed scientific journals**

**Fermion pair production in  $e^+ e^-$  collisions at 189-209-GeV and constraints on physics beyond the standard model.**

ALEPH Collaboration (S. Schael et al.). Sep 2006.  
Eur. Phys. J. C 49 (2007) 411 - 437.

**Search for Higgs bosons decaying to WW in  $e^+ e^-$  collisions at LEP.**

ALEPH Collaboration (S. Schael et al.).  
Eur. Phys. J. C 49 (2007) 439 – 455

**Measurement of the Cross Section for open b-Quark Production in Two-Photon Interactions at LEP.**

By ALEPH Collaboration (S. Schael et al.). CERN-PH-EP-2007-020, Jun 2007. 15pp.  
Published in JHEP 0709:102,2007. e-Print: arXiv:0706.3150 [hep-ex]

**G Results from the HARP Experiment.**

S. Borghi, 17<sup>th</sup> International Conference on Particles and Nuclei (PANIC 05)  
Published in AIP Conf. Proc. **842**: 837 – 839 (2006)

**A GEM based TPC with two large 3-GEM Towers**

E.Radicioni, N. Abgrall, J. Alcaraz, A. Cervera, P. Bene, A. Blondel, D. Ferrere, G.V. Jover, T. Lux, F. Masciocchi, F. Nova, E. Perrin, J.-P. Richeux, A.Y. Rodriguez, F. Sanchez and R. Schroeter  
Nuclear Science Symposium, conference record (2006) IEEE vol. **6**, pp. 3842 - 3846

**\* Requirements for accelerator-based Neutrino facilities**

A.Blondel  
Proceedings of EPAC 2006, Edinburgh, Scotland  
03 Linear colliders, Lepton Accelerators and New Acceleration Techniques  
A09 Muon Accelerators and Neutrino Factories, pp. 2406 – 2408

**\* Progress and Status of the MICE project**

A.Blondel, P. Drumm  
Proceedings of EPAC 2006, Edinburgh, Scotland  
07 Accelerator Technology  
T26 Subsystems, Technology and Components, Other, pp. 3176 –3178

**A new SPS programme**

The NA49-future Collaboration  
Marek Gazdzicki et al.  
Published in Proceedings of Science (PoS) CPOD2006:016,2006

**\* MICE: The international Muon Ionization Cooling Experiment**

J.-S. Graulich and A. Blondel, Proceeding of COOL07 Conference, Sept 2007, Bad Kreuznach, Germany, TUM2IO5- Muon Cooling – pp. 73 - 76

**G Test-bench for the Characterization of MicroMegas Modules for the T2K ND280 TPC**

M. di Marco for the T2K TPC Groups

3<sup>rd</sup> Symposium on Large TPCs for Low Energy Rare Event Detection

IOP Publishing – Journal of Physics: Conference Series **65** (2007) 012019

**Characterization of a high resolution triple Gas Electron Multiplier (GEM) detector**

N. Abgrall, J. Alcaraz, P. Bene, A. Blondel, A. Cervera, D. Ferrere, G.V. Jover, T. Lux, F. Masciocchi, F. Nova, E. Perrin, E. Radicioni, J-P. Richeux, A. Y. Rodriguez, F. Sanchez, and R. Schroeter.

Nucl. Physics **B** (Proc. Suppl.) **172** (2007) 234 – 236

**The HARP detector at the CERN PS**

M.G. Catanesi et al.

Nucl. Instrum. And Meth. In Physics Res. **A 571** (2007) 527 – 561

**Particle identification algorithms for the HARP forward spectrometer**

M.G. Catanesi et al.

Nucl. Instrum. And Meth. In Physics Res. **A 572** (2007) 899 – 921

**Bulk micromegas detectors for large TPC applications**

J. Bouchez, D.R. Burke, Ch. Cavata, P. Colas, X. de la Broise, A. Delbart, A. Giganon, I. Giomataris, P. Graffin, J.-Ph. Mols, F. Pierre, J.-L. Ritou, A. Sarrat, E. Virique, M. Zito, E. Radicioni, R. De Oliveira, J. Dumarchez, N. Abgrall, P. Bene, A. Blondel, A. Cervera, D. Ferrere, F. Masciocchi, E. Perrin, J.-P. Richeux, R. Schroeter, G. Jover, T. Lux, A.Y. Rodriguez, F. Sanchez

Nucl. Instrum. And Meth. In Physics Res. **A 574** (2007) 425 – 432

**\* Towards the European strategy for particle physics: the Briefing Book**

T. Akesson, R. Aleksan, B. Allanach, S. Bertolucci, A. Blondel, J. Butterworth, M. Cavalli-Sforza, A. Cervera, M. de Naurois, K. Desch, U. Egede, R. Heuer, A. Hoecker, P. Huber, K. Jungmann, F. Linde, A. Lombardi, M. Mangano, M. Mezzetto, G. Onderwater, N. Palanque-Delabrouille, K. Peach, A. Polosa, E. Rondio, B. Webber, G. Weiglein, J. Womersley

Eur. Phys. J. **C 51**: 421 – 500 (2007)

**Measurement of the production cross-section of positive pions in the collision of 8.9-GeV/c protons on beryllium.**

By HARP Collaboration.

Eur. Phys. J. **C 52**: 29 – 53 (2007)

**Measurement of the production of charged pions by protons on a tantalum target**

The HARP Collaboration.

Eur. Phys. J. **C 51** : 787 – 824 (2007)

**The Time Response of Glass Resistive Plate Chambers to Heavily Ionizing Particles**

A. Artamonov, et al, (A. Blondel, S. Borghi, A. Cervera-Villanueva, J.S. Graulich, R. Schroeter)

JINST 2 P10004, 2007.

**\* Physics at a future Neutrino Factory and super-beam facility.**

By ISS Physics Working Group (A. Bandyopadhyay et al.). FERMILAB-APC, Oct 2007.  
370pp.  
e-Print: arXiv:0710.4947 [hep-ph]

**Large-angle production of charged pions by 3-GeV/c - 12-GeV/c protons on carbon, copper and tin targets.**

By HARP Collaboration (M.G. Catanesi *et al.*)  
Eur.Phys.J.C **53**, 177 -204 (2008)

**Large-angle production of charged pions by 3-GeV/c - 12.9-GeV/c protons on beryllium, aluminium and lead targets.**

By HARP Collaboration (M.G. Catanesi *et al.*)  
Eur.Phys.J.C **54**, 37 – 60 (2008)

\* **Hadroproduction results from HARP**

A.Blondel,  
HEP2007 – The 2007 Europhysics Conference on High Energy Physics  
Manchester, England (19-25 July 2007)  
Journal of Physics: Conference Series 110 (2008) 082003

**ATLAS Liquid argon calorimeter back end electronics**

The Liquid Argon Back End Electronics collaboration (A. Bazan et al.)  
Published by Institute of Phys. Pub. And Sissa, JINST2:P06002, 2007

**The ATLAS Experiment at the CERN Large Hadron Collider.**

By ATLAS Collaboration (S. Bentvelsen et al.). 2008. 437pp.  
Published in JINST 3:S08003,2008

**NA61/SHINE at the CERN SPS**

By NA61 Collaboration (Andras Laszlo et al.)  
Talk given at 4th Int'l Workshop on Critical Point and Onset Deconfinement, Darmstadt,  
Germany, 9-13 July 2007  
proc. of science: (CPOD07) 054

\* **Latest results from HARP**

A.Blondel  
HEP2007 – The 2007 Europhysics Conference on High Energy Physics  
Manchester, England (19-25 July 2007)  
Journal of Physics: Conference Series 110 (2008) 082003

**The T2K experiment and its time projection chambers**

C. Hansen, L. Monfregola, *M. Ravonel*  
On behalf of the T2K TPC group  
NUFACT08-10<sup>th</sup> Int'l Workshop on Neutrino Factories, Super beams and Beta beams,  
Spain  
Proceedings of science (Nufact08) 125 –p 1-3

**Measurement of the production cross-sections of  $\pi^\pm$  in p-C and  $\pi^\pm$  interactions at 12 GeV/c**

HARP Collaboration  
Astroparticle Physics 29 (2008) 257 – 281

**Large-angle production of charged pions with 3-GeV/c - 12-GeV/c incident protons on nuclear targets**

M. G. Catanesi et al.

Physical Review C **77**, 055207 (2008)

**Measurement of single charged pion production in the charged-current interactions of neutrinos in a 1.3 GeV wide band beam**

A. Rodriguez et al.

Physical Review D **78**, 032003 (2008)

**Absolute Momentum Calibration of the HARP TPC**

M. G. Catanesi et al.

Published in JINST 3:P04007,2008.

**Experimental study of the atmospheric neutrino backgrounds for  $p \rightarrow e + \pi^0$  searches in water Cherenkov detectors.**

By K2K Collaboration ([S. Mine et al.](#))

Published in Phys.Rev. D **77**, 032003 (2008)

**Forward  $\pi^\pm$  production in  $p-O_2$  and  $p-N_2$  interactions at 12 GeV/c**

HARP Collaboration (M.G. Catanesi et al.)

Astroparticle physics 20 (2008) 124 – 132

**Forward production of charged pions with incident  $\pi^\pm$  on nuclear targets measured at the CERN PS**

HARP Collaboration (M. Appollonio et al.)

Published in Nucl. Physics A. 821 (2009) 118-192

**Physics at a future Neutrino Factory and super-beam facility**

The ISS Physics Working group (Bandyopadhyay et al.)

Rep. Prog. Phys. **72** No 10 (October 2009) 106201 (185pages)

**Accelerator design concept for future neutrino facilities**

The ISS Accelerator Working group (M. Appollonio et al.)

2009 JINST 4 P07001

**International Scoping Study (ISS) for a future neutrino factory and Super-Beam facility. Detectors and flux instrumentation for future neutrino facilities**

The ISS Detector Working group (T. Abe et al.)

**2009 JINST 4 T05001**

**Large bulk Micromegas detectors for TPC applications**

S. Anvar et al.

Published in Nucl. Instrum. Meth. A 602: 415-420, 2009

**Proposal for secondary ion beams and update of data taking schedule for 2009-2013**

By the NA61 Collaboration (A. Abgrall et al.)

CERN-SPSC-2009-001; SPSC-P-330-ADD-4. – 2009

**Forward production of charged pions with incident protons on nuclear targets at the CERN PS.**

By HARP Collaboration ([M. Apollonio et al.](#)). Jul 2009. (Received Sep 2009). 59pp.  
Published in Phys.Rev.C80:035208,2009.

**Measurement of Z-pair production in e+ e- collisions and constraints on anomalous neutral gauge couplings.**

By ALEPH Collaboration ([S. Schael et al.](#)). CERN-PH-EP-2009-002, Feb 2009. 14pp.  
Published in JHEP 0904:124,2009

**Large-angle production of charged pions with incident pion beams on nuclear targets.**

By HARP Collaboration ([M. Apollonio et al.](#)). Jul 2009. (Received Dec 2009). 109pp.  
Published in Phys.Rev.C80:065207,2009

**Comparison of large-angle production of charged pions with incident protons on cylindrical long and short targets**

By HARP Collaboration ([M. Apollonio et al.](#)). Sep 2009. (Received Dec 2009). 43pp.  
Published in Phys.Rev.C80:065204,2009.

**NA61/SHINE low energy program at SPS.**

By NA61 Collaboration ([N. Abgrall et al.](#)). Aug 2009. 10pp. Presented at 5th International Workshop on Critical Point and Onset of Deconfinement (CPOD), Brookhaven, Upton, New York  
Published in PoS CPOD2009:049, 2009

**Dynamic Distortions in the HARP TPC: Observations, measurements, modelling and corrections.**

[A. Bagulya et al.](#) Mar 2009. 28pp.  
Published in JINST 4:P11014,2009.

**Search for the QCD critical point at SPS energies.**

By NA49 Collaboration and NA61/SHINE Collaboration ([T. Anticic et al.](#)). Sep 2009. 7pp.  
Europhysics Conference on High Energy Physics: Cracow, Poland, 16-22 Jul 2009.  
Published in PoS EPS-HEP2009:030,2009

**Neutrino Factory R&D and the International Design Study for the Neutrino Factory**

A. Blondel on behalf of the IDS-NF collaboration, *European Physical Society Europhysics Conference on High Energy Physics EPS-HEP 2009*, Krakow , Poland, July 16-22, 2009,  
Published in PoS EPS-HEP 2009: 282, 2009

**The prototype of the MICE Electron-Muon Ranger: Design, construction and test,**

*8th International Conference on Position Sensitive Detectors*, Lietti D, et al,  
Nucl. Instr. Meth. Phys. Res. A 604 1-2 (2009) pp 314-318

**The design and commissioning of the MICE upstream time-of-flight system,**

R. Bertoni, A. Blondel, M. Bonesini, G. Cecchet, A. de Bari, J.S. Graulich, Y. Karadzhov,  
M. Rayner, I. Rusinov, R. Tsenov, S. Terzo, V. Verguilov,  
Published in Nucl. Instr. Meth. Phys. Res. A. 615 (2010) pp 14-26

**G Particle identification devices in MICE**

V. Verguilov, V. Palladino

Proceedings of DIPAC09, “Basel, Suisse – 07 Hadron Accelerator Instrumentation  
TUPD15- pp 321 - 323

- G The ND280 Near Detector of the T2K Experiment**  
A. Ferrero  
NUINT Conference, Sitges – Barcelone, Espagne  
Published in AIP Conf. Proc. Nov. 25, 2009 – Vol. 1189, pp. 77 -82
- G Status and Prospects for Hadron Production Experiments**  
Raphaël Schroeter  
Neutrino Factories, superbeams, and beta beams: 11<sup>th</sup> Int’l Workshop on Neutrino Factories,  
NUFACT09, Chicago, Illinois, 20-25 July 2009  
Published by AIP Conference Proceedings, Volume 1222, March 2010, 181-185 pp
- G Hadro-Production Measurements to Characterize the T2K Neutrino Flux with the NA61  
experiment at the CERN SPS**  
Alessandro Bravar for the NA61/SHINE Collaboration  
Neutrino Factories, superbeams, and beta beams: 11<sup>th</sup> Int’l Workshop on Neutrino Factories,  
NUFACT09, Chicago, Illinois, 20-25 July 2009  
Published by AIP Conference Proceedings, Volume 1222, March 2010, 431 – 434 pp
- G Particle production in the MICE beamline**  
S. Graulich  
Proceedings of PAC09, Vancouver, BC, Canada – R03 Beam Diagnostics and  
Instrumentation ( TH5RFP047)  
<http://trshare.triumf.ca/~pac09proc/Proceedings/papers/th5rfp047.pdf>
- G Further study of neutrino oscillation with two detectors in Kamioka and Korea**  
F. Dufour, T. Kajita, E. Kearns, K. Okumura  
arXiv:1001.5165v1 [hep-ph] 28 Jan. 2010
- G Preliminary results of charged pions cross-section in proton carbon interaction at 30  
GeV measured with the NA61/SHINE detector**  
S. Murphy  
arXiv:1005.3689V1 [hep-ex] 20 May 2010
- G NA61-SHINE: Hadron Production Measurements for Cosmic Ray and Neutrino  
Experiments**  
N. Abgrall  
arXiv:1005.3692V2 [hep-ex] 25 May 2010

**The ATLAS Inner Detector commissioning and calibration**

The Atlas Collaboration

Submitted to Eur. Phys. J. C. : [arXiv:1004.5293v2](https://arxiv.org/abs/1004.5293v2) [physics.ins-det] June 17, 2010

**Charged-particle multiplicities in pp interactions at  $\sqrt{s}=900$  GeV measured with the  
ATLAS detector at the LHC**

By ATLAS Collaboration (G. Aad et al.) CERN-PH-EP-2010-004, Mar. 2010, 40pp

Published in **Phys. Lett. B688:21-42**, 2010

### **Muon Polarimeter in a Neutrino Factory Ring**

M. Apollonio, (Imperial Coll., London), D. J. Kelliher, (Rutherford), A. Blondel (Geneva U.)  
UKNFBNOTE-52, IPAC10-WEPE053

In the Proceeding of 1<sup>st</sup> International Particle Accelerator Conference: IPAC'10, Kyoto, Japan,  
23-28 May 2010, pp 3464-3466

### **Search for neutral Higgs Bosons decaying into four taus at LEP2**

By ALEPH Collaboration (S. Schael et al.), Mar 2010. 18pp

Published in **JHEP 1005:049, 2010**

### **Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons**

By ATLAS Collaboration (G Aad et al.) Feb 2010, 30pp

e-Print: arXiv:1002.4189 [physics.ins-det]

### **Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions**

By ATLAS Collaboration (G Aad et al.) 2010, 31 pp

Long author list – awaiting processing

Submitted to Eur. Phys. J. C. e-print: arXiv:0912.2642 [physics-ins-det]

### **Relations between CERN and the ongoing development work regarding future neutrino facilities**

A. Blondel et al

(CERN SPC) CERN/SPC(940), CERN/2894, March 2010

### **The International design study; first status report**

S. Choubey et al, (A. Blondel and F. Dufour from Univ. of Geneva)

IDS-NF 017, April 2010

### **Mice status report**

A. Blondel et G. Hanson eds,

MICE-NOTE-GEN-316, Septembre 2010

### **Status report to the proposal P330**

Report from the NA61/SHINE experiment at the CERN SPS

By the NA61 Collaboration (N. Abgrall et al)

CERN-SPSC-2010-025 SPSC-SR-066 (17 Septembre 2010)

### **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.**

Atlas Collaboration **Phys.Rev.Lett. 105 (2010) 252303**

### **Measurement of the $W \rightarrow l\nu$ and $Z/\gamma^* \rightarrow ll$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.**

Atlas Collaboration **JHEP 1012 (2010) 060**

### **Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC.**

ATLAS\_Collaboration **Phys.Rev.Lett. 105 (2010) 161801**

**Measurements of forward proton production with incident protons and charged pions on nuclear targets at the CERN Proton Synchrotron.**

HARP Collaboration ([M. Apollonio et al.](#)). FERMILAB-PUB-10-646-E, CERN-PH-EP-2010-016. Jun 2010. 43 pp.

Published in **Phys.Rev. C82 (2010) 045208**

**The design and commissioning of the MICE upstream time-of-flight system.**

Mice Collaboration ([R. Bertoni et al.](#)). Jan 2010.

Published in **Nucl.Instrum.Meth. A615 (2010) 14-26**

**Readiness of the ATLAS Tile Calorimeter for LHC collisions.**

ATLAS Collaboration ([Georges Aad et al.](#)). 64 pp.

Published in **Eur.Phys.J. C70 (2010) 1193-1236**

**Commissioning of the ATLAS Muon Spectrometer with Cosmic Rays.**

ATLAS Collaboration ([Georges Aad et al.](#)). 2010. 58 pp.

Published in **Eur.Phys.J. C70 (2010) 875-916**

**Hadron production measurements for neutrino experiments by the NA61/SHINE experiment at CERN.**

NA61/SHINE Collaboration ([Alessandro Bravar](#) for the collaboration). 5 pp.

Published in **PoS ICHEP2010 (2010) 293**

**Hadro-Production Measurements to Characterize the T2K Neutrino Flux with the NA61 Experiment at the CERN SPS.**

NA61/SHINE Collaboration ([Alessandro Bravar](#) ([Geneva U.](#)) for the collaboration). 4 pp.

Published in **AIP Conf.Proc. 1222 (2010) 431-434**

**G Measurement of emittance and emittance reduction in MICE.**

Vassil Verguilov (Geneva U.). Jul 2010. 4 pp.

Published in **PoS ICHEP2010 (2010) 527**

**Luminosity Determination in pp Collisions at  $\sqrt{s}=7$  TeV Using the ATLAS Detector at the LHC.**

ATLAS Collaboration ([Georges Aad et al.](#)). Jan 2011. 24 pp.

**Eur.Phys.J. C71 (2011) 1630**

**Study of Jet Shapes in Inclusive Jet Production in pp Collisions at  $\sqrt{s} = 7$  TeV using the ATLAS Detector.**

Atlas Collaboration ([Georges Aad et al.](#)). 35 pp.

**Phys.Rev. D83 (2011) 052003**

**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.**

ATLAS Collaboration ([Georges Aad et al.](#)). 26 pp.

**Phys.Lett. B698 (2011) 325-345**

**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.**

Atlas Collaboration ([Georges Aad et al.](#)). 46 pp.

**Phys.Lett. B697 (2011) 294-312**

**Measurement of the inclusive isolated prompt photon cross section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector.**

Atlas Collaboration ([Georges Aad \*et al.\*](#)). 33 pp.  
**Phys.Rev. D83 (2011) 052005**

**Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC.**

ATLAS Collaboration ([Georges Aad \*et al.\*](#)). 70 pp.  
**New J.Phys. 13 (2011) 053033**

**Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector.**

ATLAS Collaboration ([Georges Aad](#), [et al.](#)). 5 pp.  
**Phys.Rev.Lett. 106 (2011) 121803**

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

Atlas Collaboration ([Georges Aad \*et al.\*](#)). 30 pp.  
**Eur.Phys.J. C71 (2011) 1577**

**Measurement of underlying event characteristics using charged particles in pp collisions at  $\sqrt{s} = 900$  GeV and 7 TeV with the ATLAS detector.**

Atlas Collaboration ([Georges Aad](#) ([Freiburg U.](#)) [et al.](#)). 36 pp.  
**Phys. Rev. D 83 (2011) 112001**

**Tests of the MICE Electron Muon Ranger frontend electronics with a small scale prototype.**

D. Bolognini (Insubria U., Como & INFN, Milan Bicocca), P. Bene, A. Blondel, F. Cadoux, S. Debieux (Geneva U.), G. Giannini (Trieste U. & INFN, Trieste), J.S. Graulich (Geneva U.), D. Lietti (Insubria U., Como & INFN, Milan Bicocca), F. Masciocchi (Geneva U.), M. Prest (Insubria U., Como & INFN, Milan Bicocca) *et al.*. 2011. 10 pp.  
Published in **Nucl.Instrum.Meth. A646 (2011) 108-117**

**Search for Quark Contact Interactions in Dijet Angular Distributions in pp Collisions at  $\sqrt{s} = 7$  TeV Measured with the ATLAS Detector.**

ATLAS Collaboration ([Georges Aad \*et al.\*](#)). 22 pp.  
Published in **Phys.Lett. B694 (2011) 327-345**

**Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector.**

Atlas Collaboration ([Georges Aad \*et al.\*](#)). 67 pp.  
Published in **Eur.Phys.J. C71 (2011) 1512**

**Measurement of the isolated di-photon cross-section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector.**

ATLAS Collaboration ([Georges Aad](#), [et al.](#)). CERN-PH-EP-2011-088. Jul 2011. 15 pp.  
e-Print: [arXiv:1107.0581 \[hep-ex\]](#)

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

ATLAS Collaboration ([Georges Aad](#) ([Freiburg U.](#)) *et al.*). CERN-PH-EP-2011-083. Jun 2011. 24 pp.

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**First Muon-Neutrino Disappearance Study with an Off-Axis Beam**

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