

Personal Information

Office Phone: [+90 312 210 5067](tel:+903122105067)

Fax Phone: [+90 312 210 5099](tel:+903122105099)

Email: demirkoz@metu.edu.tr

Web: <https://avesis.metu.edu.tr/demirkoz>

International Researcher IDs

ScholarID: UHeeSJwAAAAJ

ORCID: 0000-0001-7171-5976

Publons / Web Of Science ResearcherID: C-8179-2014

ScopusID: 15843124700

Yoksis Researcher ID: 118110

Education Information

Doctorate, University of Oxford-Balliol College, Fizik Bölümü, United Kingdom 2004 - 2007

Postgraduate, Massachusetts Institute of Technology, Fizik Bölümü, United States Of America 2001 - 2004

Undergraduate, Massachusetts Institute of Technology, Fizik Bölümü, United States Of America 1997 - 2001

Undergraduate Minor, Massachusetts Institute of Technology, Müzik Bölümü, United States Of America 1997 - 2001

Undergraduate Minor, Massachusetts Institute of Technology, Matematik Bölümü, United States Of America 1997 - 2001

Dissertations

Doctorate, Construction and performance of the ATLAS SCT barrels and cosmic tests, University Of Oxford-Balliol College, Fizik Bölümü, 2007

Postgraduate, A transition radiation detector and gas supply system for AMS, Massachusetts Institute Of Technology, Fizik Bölümü, 2004

Research Areas

Material Characterization, Nuclear Engineering and Nuclear Energy Studies, Experimental Methods of Particle and Nuclear Physics, Radioactive decay and in-beam spectroscopy, Task analysis, Space environment effects

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2017 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2011 - 2017

Academic and Administrative Experience

Asli Üye, Diğer (Kurumlar,hastaneler Vb.), 2021 - Continues

BİDEB Kurul Üyesi, Diğer (Kurumlar,hastaneler Vb.), 2020 - Continues

Director of the Center, Middle East Technical University, Presidency Office, Uzay ve Hızlandırıcı Teknolojiler Uygulama ve Araştırma Merkezi (İVMER), 2019 - Continues
University Executive Board Member, European Nuclear Research Center, Avrupa Nükleer Araştırma Merkezi/CERN Kullanıcıları Danışma Kurulu Türkiye Temsilcisi, 2015 - Continues
Yardımcı Üye, Diğer (Kurumlar,hastaneler Vb.), 2019 - 2020
University Executive Board Member, Cern, 2014 - 2019
Yardımcı Üye, Diğer (Kurumlar,hastaneler Vb.), 2015 - 2018
Diğer(Kurumlar,Hastaneler Vb.), Kurumlar, Tübitak, 2014 - 2016
Cern, Avrupa Nükleer Araştırmalar Merkezi, Cern Kullanıcıları Danışma Kurulu, 2015 - 2015
Cern, Avrupa Nükleer Araştırmalar Merkezi, Cern Kullanıcıları Danışma Kurulu, 2014 - 2015

Supervised Theses

Demirköz M. B., Measurement of helium flux and variability in low earth orbit with the alpha magnetic spectrometer, Postgraduate, G.KARAGÖZ(Student), 2022
Demirköz M. B., Uzun Duran S., A novel layered boron-based neutron shield design and results from neutron and gamma irradiation studies, Postgraduate, B.MUCOGLAVA(Student), 2022
DEMİRKÖZ M. B., Space radiation estimation for the Turkish lunar mission, Postgraduate, B.BEKTAŞOĞLU(Student), 2022
Leloğlu U. M., DEMİRKÖZ M. B., Analysis of Relations between Solar Activity, Cosmic Rays and the Earth Climate using Machine Learning Techniques, Postgraduate, B.BELEN(Student), 2021
Demirköz M. B., Hybrid Quantum-Classical Graph Neural Networks for Particle Track Reconstruction at the Large Hadron Collider, Postgraduate, C.TÜYSÜZ(Student), 2021
Demirköz M. B., DESIGN AND OPTIMIZATION OF SPACE RADIATION MONITOR FOR SPACECRAFT IN LEO. ACCOMPANIED WITH PERFORMANCE TESTING AT METU-DBL, Postgraduate, A.ALBARODİ(Student), 2020
Demirköz M. B., Simulation Studies of the Design of a Laser-Driven Accelerator for Performing Space Radiation Tests with EPOCH 2D, Doctorate, M.YİĞİTOĞLU(Student), 2019
Akdeniz M. V., Demirköz M. B., RADIATION DAMAGE STUDIES OF BULK METALLIC GLASS MATERIALS UNDER PROTON IRRADIATION AND RADIOPROTECTION STUDIES FOR METU-DBL, Postgraduate, P.USLU(Student), 2019
DEMİRKÖZ M. B., Measurement of the proton flux and variability in low earth orbit with the alpha magnetic spectrometer, Postgraduate, Ç.KONAK(Student), 2019
DEMİRKÖZ M. B., Radiation environment predictions for the imece satellite and G4beamline simulations for the METU-DBL project, Postgraduate, M.YİĞİTOĞLU(Student), 2017
DEMİRKÖZ M. B., Calorimetric mode photon analysis using the alpha magnetic spectrometer (AMS-02), Postgraduate, C.TÜRKOĞLU(Student), 2015
DEMİRKÖZ M. B., Design of an irradiation test facility for space applications, Postgraduate, D.KIZILÖREN(Student), 2014
DEMİRKÖZ M. B., Conversion mode photon analysis using the alpha magnetic spectrometer (AMS-02), Postgraduate, E.POSTACI(Student), 2014

Research Infrastructure Information

Demirköz M. B., ODTÜ Uzay ve Hızlandırıcı Teknolojiler Uygulama ve Araştırma Merkezi, April 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- A comparison of deep learning models for proton background rejection with the AMS electromagnetic calorimeter**
Hashmani R., AKBAŞ E., DEMİRKÖZ M. B.
Machine Learning: Science and Technology, vol.5, no.4, 2024 (SCI-Expanded)

- II. **Fabrication and Radiation Shielding Properties of (HDPE/Colemanite)-(HDPE/Bi2O3) Multi-Layer Composites**
Uzun Duran S., Alver Ü., Demirköz M. B., Mucogllava B., Çava K., Aslan M., Özkalaycı F., Dindar O.
Polymers for Advanced Technologies, vol.35, no.11, 2024 (SCI-Expanded)
- III. **Exploring relations between solar activity, cosmic rays, clouds and earth climate using machine learning techniques**
Belen B., Leloğlu U., DEMİRKÖZ M. B.
ADVANCES IN SPACE RESEARCH, vol.74, no.4, pp.1883-1899, 2024 (SCI-Expanded)
- IV. **Properties of Cosmic Deuterons Measured by the Alpha Magnetic Spectrometer**
Aguilar M., Alpat B., Ambrosi G., Anderson H., Arruda L., Attig N., Bagwell C., Barao F., Barbanera M., Barrin L., et al.
PHYSICAL REVIEW LETTERS, vol.132, no.26, 2024 (SCI-Expanded)
- V. **Temporal Structures in Positron Spectra and Charge-Sign Effects in Galactic Cosmic Rays**
Aguilar M., Ambrosi G., Anderson H., Arruda L., Attig N., Bagwell C., Barao F., Barbanera M., Barrin L., Bartoloni A., et al.
PHYSICAL REVIEW LETTERS, vol.131, no.15, 2023 (SCI-Expanded)
- VI. **Ulexite/HDPE-Bi2O3/HDPE layered composites for neutron and gamma radiation shielding**
Alver Ü., Duran S. U., Demirköz M. B., Muçogllava B., Aslan M., Çava K., Özkalaycı F., Dindar O.
Applied Radiation and Isotopes, vol.200, 2023 (SCI-Expanded)
- VII. **METU-DBL: a cost effective proton irradiation facility**
KARADÖLLER E., Uzun Duran S., Kılıç U., Hashmani R., DEMİRKÖZ M. B., Efthymiopoulos I., CAN A., Çakmakçoğlu S., Muçogllava B., Kayaalp A., et al.
Journal of Instrumentation, vol.18, no.6, 2023 (SCI-Expanded)
- VIII. **Quadrupole magnet design, manufacturing and the acceptance tests for METU-defocusing beamline**
DEMİRKÖZ M. B., Avaroğlu A., Seçkin C., Bülbül B., Tüysüz C., Kılıç U., Uslu P., Milanese A., Thonet P., Deferne G., et al.
Journal of Instrumentation, vol.18, no.6, 2023 (SCI-Expanded)
- IX. **A Novel Approach to Space Radiation Tests by Using High Power Laser Plasma Interactions**
Keskin M. Y., DEMİRKÖZ M. B., Culfa O.
Plasma Physics Reports, vol.49, no.6, pp.748-758, 2023 (SCI-Expanded)
- X. **Properties of Cosmic-Ray Sulfur and Determination of the Composition of Primary Cosmic-Ray Carbon, Neon, Magnesium, and Sulfur: Ten-Year Results from the Alpha Magnetic Spectrometer**
Aguilar M., Ali Cavasonza L., Alpat B., Ambrosi G., Arruda L., Attig N., Bagwell C., Barao F., Barrin L., Bartoloni A., et al.
PHYSICAL REVIEW LETTERS, vol.130, no.21, 2023 (SCI-Expanded)
- XI. **Effect of proton irradiation on the performance of fluxgate sensors**
İÇİN K., Can H., Akyol S., Uslu Kiçeci P., Topal U., ÖZTÜRK S., DEMİRKÖZ M. B., Sözeri H.
Journal of Alloys and Compounds, vol.941, 2023 (SCI-Expanded)
- XII. **Temporal Structures in Electron Spectra and Charge Sign Effects in Galactic Cosmic Rays**
Aguilar M., Cavasonza L. A., Ambrosi G., Arruda L., Attig N., Bagwell C., Barao F., Barrin L., Bartoloni A., Başığmez-Du Pree S., et al.
PHYSICAL REVIEW LETTERS, vol.13, no.16, 2023 (SCI-Expanded)
- XIII. **New monitoring interface for the AMS experiment**
Hashmani R. K., Konyushikhin M., Shan B., Cai X., Demirköz M. B.
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, vol.1046, 2023 (SCI-Expanded)
- XIV. **Radiation Testing of Commercial Rechargeable Lithium Polymer Batteries for Small Satellite Applications**
Muçogllava B., Karim Hashmani R., Çakmakçoğlu S., Demirköz M. B.
Journal of the Electrochemical Society, vol.169, no.11, 2022 (SCI-Expanded)
- XV. **Properties of Daily Helium Fluxes**
Aguilar M., Cavasonza L. A., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., Başığmez-Du Pree S., Battiston R., et al.

- Physical Review Letters, vol.128, no.23, 2022 (SCI-Expanded)
- XVI. **Shield Design of the First Protective Collimator in the METU-Defocusing Beamline (DBL) Project**
UZUN DURAN S., USLU KİÇECİ P., Demirköz B.
NUCLEAR TECHNOLOGY, vol.208, no.2, pp.364-370, 2022 (SCI-Expanded)
- XVII. **Radiation effect studies on partially crystalline bulk amorphous Fe-based metallic glass**
Kiceci P. U., Akdeniz M. V., Demirköz M. B., Mekhrabov A.
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.177, no.3-4, pp.294-306, 2022 (SCI-Expanded)
- XVIII. **Periodicities in the Daily Proton Fluxes from 2011 to 2019 Measured by the Alpha Magnetic Spectrometer on the International Space Station from 1 to 100 GV**
Aguilar M., Cavasonza L. A., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., Basegmez-Du Pree S., Battiston R., et al.
PHYSICAL REVIEW LETTERS, vol.127, no.27, 2021 (SCI-Expanded)
- XIX. **Properties of a New Group of Cosmic Nuclei: Results from the Alpha Magnetic Spectrometer on Sodium, Aluminum, and Nitrogen**
Aguilar M., Cavasonza L. A., Alpat B., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., Başığmez-Du Pree S., et al.
PHYSICAL REVIEW LETTERS, vol.127, no.2, 2021 (SCI-Expanded)
- XX. **Properties of Heavy Secondary Fluorine Cosmic Rays: Results from the Alpha Magnetic Spectrometer**
Aguilar M., Cavasonza L. A., Allen M., Alpat B., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., et al.
PHYSICAL REVIEW LETTERS, vol.126, no.8, 2021 (SCI-Expanded)
- XXI. **The Alpha Magnetic Spectrometer (AMS) on the international space station: Part II - Results from the first seven years**
Aguilar M., Ali Cavasonza L., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., Başığmez-du Pree S., Bates J., et al.
PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, vol.894, pp.1-116, 2021 (SCI-Expanded)
- XXII. **Properties of Iron Primary Cosmic Rays: Results from the Alpha Magnetic Spectrometer**
Aguilar M., Cavasonza L. A., Allen M., Alpat B., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., et al.
PHYSICAL REVIEW LETTERS, vol.126, no.4, 2021 (SCI-Expanded)
- XXIII. **Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer**
Aguilar M., Cavasonza L. A., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., Basegmez-du Pree S., Battiston R., et al.
PHYSICAL REVIEW LETTERS, vol.124, no.21, 2020 (SCI-Expanded)
- XXIV. **Metu-Defocusing Beamline : A 15-30 Mev Proton Irradiation Facility and Beam Measurement System**
DEMİRKÖZ M. B., Caner S., Akanay A., Besna B., Pelin U., Erinc K., Yusuf O., Selen A., Merve Y., Çağlar S., et al.
EPJ Web of Conferences, vol.225, pp.1008, 2020 (SCI-Expanded)
- XXV. **Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer**
Aguilar M., Cavasonza L. A., Ambrosi G., Arruda L., Attig N., Bachlechner A., Barao F., Barrau A., Barrin L., Bartoloni A., et al.
PHYSICAL REVIEW LETTERS, vol.123, no.18, 2019 (SCI-Expanded)
- XXVI. **METU defocusing beamline project for the first SEE tests in Turkey and the test results from the METU-DBL preliminary setup**
Demirköz B., Nigdeliöglu S., Yigitoglu M., Aydin S., Efthymiopoulos I.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.936, pp.54-56, 2019 (SCI-Expanded)
- XXVII. **Towards Understanding the Origin of Cosmic-Ray Electrons**
Aguilar M., Cavasonza L. A., Alpat B., Ambrosi G., Arruda L., Attig N., Azzarello P., Bachlechner A., Barao F., Barrau A., et al.
PHYSICAL REVIEW LETTERS, vol.122, no.10, 2019 (SCI-Expanded)
- XXVIII. **Towards Understanding the Origin of Cosmic-Ray Positrons**
Aguilar M., Cavasonza L. A., Ambrosi G., Arruda L., Attig N., Azzarello P., Bachlechner A., Barao F., Barrau A., Barrin

- L., et al.
PHYSICAL REVIEW LETTERS, vol.122, no.4, 2019 (SCI-Expanded)
- XXIX. **Precision Measurement of Cosmic-Ray Nitrogen and its Primary and Secondary Components with the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Cavasonza L. A., Alpat B., Ambrosi G., Arruda L., Attig N., Aupetit S., Azzarello P., Bachlechner A., Barao F., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.5, 2018 (SCI-Expanded)
- XXX. **Observation of Fine Time Structures in the Cosmic Proton and Helium Fluxes with the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Cavasonza L. A., Alpat B., Ambrosi G., Arruda L., Attig N., Aupetit S., Azzarello P., Bachlechner A., Barao F., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.5, 2018 (SCI-Expanded)
- XXXI. **Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Cavasonza L. A., Ambrosi G., Arruda L., Attig N., Aupetit S., Azzarello P., Bachlechner A., Barao F., Barrau A., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.5, 2018 (SCI-Expanded)
- XXXII. **Observation of New Properties of Secondary Cosmic Rays Lithium, Beryllium, and Boron by the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Cavasonza L. A., Ambrosi G., Arruda L., Attig N., Aupetit S., Azzarello P., Bachlechner A., Barao F., Barrau A., et al.
PHYSICAL REVIEW LETTERS, vol.120, no.2, 2018 (SCI-Expanded)
- XXXIII. **Observation of the Identical Rigidity Dependence of He, C, and O Cosmic Rays at High Rigidities by the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Cavasonza L. A., Alpat B., Ambrosi G., Arruda L., Attig N., Aupetit S., Azzarello P., Bachlechner A., Barao F., et al.
PHYSICAL REVIEW LETTERS, vol.119, no.25, 2017 (SCI-Expanded)
- XXXIV. **Precision Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays from 1.9 GV to 2.6 TV with the Alpha Magnetic Spectrometer on the International Space Station**
AGUILAR M., CAVASONZA L. A., AMBROSI G., ARRUDA L., ATTIG N., AUPETIT S., AZZARELLO P., BACHLECHNER A., BARAO F., BARRAU A., et al.
PHYSICAL REVIEW LETTERS, vol.117, no.23, 2016 (SCI-Expanded)
- XXXV. **Antiproton Flux, Antiproton-to-Proton Flux Ratio, and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Alpat B., Alpat B., Ambrosi G., Arruda L., Attig N., Aupetit S., Azzarello P., Bachlechner A., Barao F., et al.
PHYSICAL REVIEW LETTERS, vol.117, no.9, 2016 (SCI-Expanded)
- XXXVI. **Defocusing beam line design for an irradiation facility at the TAEA SANAEM Proton Accelerator Facility**
Gencer A., Demirkoz B., Efthymiopoulos I., Yigitoglu M.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.824, pp.202-203, 2016 (SCI-Expanded)
- XXXVII. **The ATLAS Data Acquisition and High Level Trigger system**
Abolins M., Abreu R., Achenbach R., Aharrouche M., Aielli G., Al-Shabibi A., Aleksandrov I., Alexandrov E., Allbrooke B. M., Aloisio A., et al.
JOURNAL OF INSTRUMENTATION, vol.11, 2016 (SCI-Expanded)
- XXXVIII. **Precision Measurement of the Helium Flux in Primary Cosmic Rays of Rigidities 1.9 GV to 3 TV with the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Aisa D., Alpat B., Alvino A., Ambrosi G., Andeen K., Arruda L., Attig N., Azzarello P., Bachlechner A., et al.
PHYSICAL REVIEW LETTERS, vol.115, no.21, 2015 (SCI-Expanded)
- XXXIX. **Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity 1 GV to 1.8 TV with**

the Alpha Magnetic Spectrometer on the International Space Station

Aguilar M., Aisa D., Alpat B., Alvino A., Ambrosi G., Andeen K., Arruda L., Attig N., Azzarello P., Bachlechner A., et al. PHYSICAL REVIEW LETTERS, vol.114, no.17, 2015 (SCI-Expanded)

- XL. **Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. EUROPEAN PHYSICAL JOURNAL C, vol.75, no.1, 2015 (SCI-Expanded)
- XLI. **Precision Measurement of the $(e^{(+)} + e^{(-)})$ Flux in Primary Cosmic Rays from 0.5 GeV to 1 TeV with the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Aisa D., Alpat B., Alvino A., Ambrosi G., Andeen K., Arruda L., Attig N., Azzarello P., Bachlechner A., et al. PHYSICAL REVIEW LETTERS, vol.113, no.22, 2014 (SCI-Expanded)
- XLII. **Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. NEW JOURNAL OF PHYSICS, vol.16, 2014 (SCI-Expanded)
- XLIII. **High Statistics Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5-500 GeV with the Alpha Magnetic Spectrometer on the International Space Station**
Accardo L., Aguilar M., Aisa D., Alpat B., Alvino A., Ambrosi G., Andeen K., Arruda L., Attig N., Azzarello P., et al. PHYSICAL REVIEW LETTERS, vol.113, no.12, 2014 (SCI-Expanded)
- XLIV. **Electron and Positron Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station**
Aguilar M., Aisa D., Alvino A., Ambrosi G., Andeen K., Arruda L., Attig N., Azzarello P., Bachlechner A., Barao F., et al. PHYSICAL REVIEW LETTERS, vol.113, no.12, 2014 (SCI-Expanded)
- XLV. **Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}=7$ TeV in 2010**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.74, no.9, 2014 (SCI-Expanded)
- XLVI. **The differential production cross section of the $\phi(1020)$ meson in $\sqrt{s}=7$ TeV pp collisions measured with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.74, no.7, 2014 (SCI-Expanded)
- XLVII. **Measurement of $\chi(c1)$ and $\chi(c2)$ production with $\sqrt{s}=7$ TeV pp collisions at ATLAS**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2014 (SCI-Expanded)
- XLVIII. **Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW LETTERS, vol.112, no.20, 2014 (SCI-Expanded)
- XLIX. **Study of heavy-flavor quarks produced in association with top-quark pairs at $\sqrt{s}=7$ TeV using the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.89, no.7, 2014 (SCI-Expanded)
- L. **Measurement of the production cross section of prompt j/ψ mesons in association with a W (+/-) boson in pp collisions $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2014 (SCI-Expanded)
- LI. **Measurement of the inclusive isolated prompt photons cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector using 4.6 fb^{-1}**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.89, no.5, 2014 (SCI-Expanded)
- LII. **Search for Quantum Black Hole Production in High-Invariant-Mass Lepton plus Jet Final States Using pp Collisions at $\sqrt{s}=8$ TeV and the ATLAS Detector**

- Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW LETTERS, vol.112, no.9, 2014 (SCI-Expanded)
- LIII. **Search for a multi-Higgs-boson cascade in $W(+)W(-)b(b)$ over-bar events with the ATLAS detector in pp collisions at root $s=8$ TeV**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW D, vol.89, no.3, 2014 (SCI-Expanded)
- LIV. **Standalone vertex finding in the ATLAS muon spectrometer**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. JOURNAL OF INSTRUMENTATION, vol.9, 2014 (SCI-Expanded)
- LIV. **Measurement of the top quark pair production charge asymmetry in proton-proton collisions at root $s=7$ TeV using the ATLAS detector**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2014 (SCI-Expanded)
- LVI. **Search for Dark Matter in Events with a Hadronically Decaying W or Z Boson and Missing Transverse Momentum in pp Collisions at root $s=8$ TeV with the ATLAS Detector**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW LETTERS, vol.112, no.4, 2014 (SCI-Expanded)
- LVII. **Measurement of the mass difference between top and anti-top quarks in pp collisions at root $s=7$ TeV using the ATLAS detector**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICS LETTERS B, vol.728, pp.363-379, 2014 (SCI-Expanded)
- LVIII. **Search for new phenomena in photon plus jet events collected in proton-proton collisions at root $s=8$ TeV with the ATLAS detector**
 Aad G., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al. PHYSICS LETTERS B, vol.728, pp.562-578, 2014 (SCI-Expanded)
- LIX. **Measurement of jet shapes in top-quark pair events at root $s=7$ TeV using the ATLAS detector**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.73, no.12, 2013 (SCI-Expanded)
- LX. **Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at root(s)=8 TeV with the ATLAS detector**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW D, vol.88, no.11, 2013 (SCI-Expanded)
- LXI. **Measurement of Top Quark Polarization in Top-Antitop Events from Proton- Proton Collisions at root $s=7$ TeV Using the ATLAS Detector**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW LETTERS, vol.111, no.23, 2013 (SCI-Expanded)
- LXII. **Search for long-lived stopped R-hadrons decaying out of time with pp collisions using the ATLAS detector**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW D, vol.88, no.11, 2013 (SCI-Expanded)
- LXIII. **Proposal for an irradiation facility at the TAEK SANAEM Proton Accelerator Facility**
 Demirkoz B., Gencer A., KIZILÖREN D., Apsimon R. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.730, pp.232-234, 2013 (SCI-Expanded)
- LXIV. **Dynamics of isolated-photon plus jet production in pp collisions at root $s=7$ TeV with the ATLAS detector**
 Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. NUCLEAR PHYSICS B, vol.875, no.3, pp.483-535, 2013 (SCI-Expanded)
- LXV. **Measurement of the Azimuthal Angle Dependence of Inclusive Jet Yields in Pb plus Pb Collisions at root $s(NN)=2.76$ TeV with the ATLAS Detector**

- Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW LETTERS, vol.111, no.15, 2013 (SCI-Expanded)
- LXVI. **Measurement of the high-mass Drell-Yan differential cross-section in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.725, pp.223-242, 2013 (SCI-Expanded)
- LXVII. **Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICS LETTERS B, vol.726, pp.88-119, 2013 (SCI-Expanded)
- LXVIII. **Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICAL REVIEW D, vol.88, no.7, 2013 (SCI-Expanded)
- LXIX. **Evidence for the spin-0 nature of the Higgs boson using ATLAS data**
Aad G., Abajyan T., Abbott B., Abdallah J. J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. PHYSICS LETTERS B, vol.726, pp.120-144, 2013 (SCI-Expanded)
- LXX. **Search for excited electrons and muons in root s=8 TeV proton-proton collisions with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al. NEW JOURNAL OF PHYSICS, vol.15, 2013 (SCI-Expanded)
- LXXI. **Measurement with the ATLAS detector of multi-particle azimuthal correlations in p plus Pb collisions at root s(NN)=5.02 TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.725, pp.60-78, 2013 (SCI-Expanded)
- LXXII. **Measurement of charged-particle event shape variables in inclusive root(s)=7 TeV proton-proton interactions with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.88, no.3, 2013 (SCI-Expanded)
- LXXIII. **Measurement of the inclusive jet cross-section in pp collisions at root s=2.76 TeV and comparison to the inclusive jet cross-section at root s=7 TeV using the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Abdel Khalek S., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.73, no.8, 2013 (SCI-Expanded)
- LXXIV. **Improved luminosity determination in pp collisions at root s=7 TeV using the ATLAS detector at the LHC**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.73, no.8, 2013 (SCI-Expanded)
- LXXV. **Search for t(t)over-bar resonances in the lepton plus jets final state with ATLAS using 4.7 fb(-1) of pp collisions at root s=7 TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.88, no.1, 2013 (SCI-Expanded)
- LXXVI. **Triggers for displaced decays of long-lived neutral particles in the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. JOURNAL OF INSTRUMENTATION, vol.8, 2013 (SCI-Expanded)
- LXXVII. **Characterisation and mitigation of beam-induced backgrounds observed in the ATLAS detector during the 2011 proton-proton run**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. JOURNAL OF INSTRUMENTATION, vol.8, 2013 (SCI-Expanded)
- LXXVIII. **Search for nonpointing photons in the diphoton and E-T(miss) final state in root s=7 TeV proton-proton collisions using the ATLAS detector**

- Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.88, no.1, 2013 (SCI-Expanded)
- LXXIX. **Search for resonant diboson production in the WW/WZ \rightarrow $l\nu j j$ decay channels with the ATLAS detector at $\sqrt{s}=7$ TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)
- LXXX. **Search for a heavy narrow resonance decaying to $e\mu$, $e\tau$, or $\mu\tau$ with the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions at the LHC**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.723, pp.15-32, 2013 (SCI-Expanded)
- LXXXI. **Measurements of W γ and Z γ production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)
- LXXXII. **Measurement of W+W- production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector and limits on anomalous WWZ and WW γ couplings**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.87, no.11, 2013 (SCI-Expanded)
- LXXXIII. **Search for a light charged Higgs boson in the decay channel $H^+ \rightarrow c(s)\bar{c}$ in $t(\bar{t})\bar{c}$ events using pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.73, no.6, 2013 (SCI-Expanded)
- LXXXIV. **Search for long-lived, multi-charged particles in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.722, pp.305-323, 2013 (SCI-Expanded)
- LXXXV. **Observation of Associated Near-Side and Away-Side Long-Range Correlations in $\sqrt{s_{NN}}=5.02$ TeV Proton-Lead Collisions with the ATLAS Detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW LETTERS, vol.110, no.18, 2013 (SCI-Expanded)
- LXXXVI. **Measurement of $k(T)$ splitting scales in $W \rightarrow l\nu$ events at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.73, no.5, 2013 (SCI-Expanded)
- LXXXVII. **Search for single b^* -quark production with the ATLAS detector at $\sqrt{s}=7$ TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.721, pp.171-189, 2013 (SCI-Expanded)
- LXXXVIII. **Search for displaced muonic lepton jets from light Higgs boson decay in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.721, pp.32-50, 2013 (SCI-Expanded)
- LXXXIX. **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**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. NEW JOURNAL OF PHYSICS, vol.15, 2013 (SCI-Expanded)
- XC. **Search for extra dimensions in diphoton events from proton-proton collisions at $\sqrt{s}=7$ TeV in the ATLAS detector at the LHC**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. NEW JOURNAL OF PHYSICS, vol.15, 2013 (SCI-Expanded)
- XCI. **First Result from the Alpha Magnetic Spectrometer on the International Space Station: Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5-350 GeV**
Aguilar M., Alberti G., Alpat B., Alvino A., Ambrosi G., Andeen K., Anderhub H., Arruda L., Azzarello P., Bachlechner

A., et al.

PHYSICAL REVIEW LETTERS, vol.110, no.14, 2013 (SCI-Expanded)

- XCII. Searches for heavy long-lived sleptons and R-hadrons with the ATLAS detector in pp collisions at root s=7 TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICS LETTERS B, vol.720, pp.277-308, 2013 (SCI-Expanded)
- XCIII. Measurement of hard double-parton interactions in W(-> lv) plus 2-jet events at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
NEW JOURNAL OF PHYSICS, vol.15, 2013 (SCI-Expanded)
- XCIV. Search for light top squark pair production in final states with leptons and b-jets with the ATLAS detector in root s=7 TeV proton-proton collisions**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICS LETTERS B, vol.720, pp.13-31, 2013 (SCI-Expanded)
- XCIV. Measurement of angular correlations in Drell-Yan lepton pairs to probe Z/gamma* boson transverse momentum at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICS LETTERS B, vol.720, pp.32-51, 2013 (SCI-Expanded)
- XCVI. Search for new phenomena in events with three charged leptons at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICAL REVIEW D, vol.87, no.5, 2013 (SCI-Expanded)
- XCVII. Measurement of upsilon production in 7 TeV pp collisions at ATLAS**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICAL REVIEW D, vol.87, no.5, 2013 (SCI-Expanded)
- XCVIII. Multi-channel search for squarks and gluinos in root s=7 TeV pp collisions with the ATLAS detector at the LHC**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.3, 2013 (SCI-Expanded)
- XCIX. Jet energy resolution in proton-proton collisions at root s 7 TeV recorded in 2010 with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.3, 2013 (SCI-Expanded)
- C. Measurement of the t(t)over-bar production cross section in the tau plus jets channel using the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.3, 2013 (SCI-Expanded)
- CI. Jet energy measurement with the ATLAS detector in proton-proton collisions at root s=7 TeV**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.3, 2013 (SCI-Expanded)
- CII. Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid S., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.3, 2013 (SCI-Expanded)
- CIII. Search for long-lived, heavy particles in final states with a muon and multi-track displaced vertex in proton-proton collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICS LETTERS B, vol.719, pp.280-298, 2013 (SCI-Expanded)
- CIV. A search for prompt lepton-jets in pp collisions at root s=7 TeV with the ATLAS detector**

- Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.719, pp.299-317, 2013 (SCI-Expanded)
- CV. **Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at root S-NN=2.76 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al. PHYSICS LETTERS B, vol.719, pp.220-241, 2013 (SCI-Expanded)
- CVI. **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**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.719, pp.261-279, 2013 (SCI-Expanded)
- CVII. **A search for high-mass resonances decaying to tau(+)tau(-) in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.719, pp.242-260, 2013 (SCI-Expanded)
- CVIII. **Measurement of the Lambda(0)(b) lifetime and mass in the ATLAS experiment**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.87, no.3, 2013 (SCI-Expanded)
- CIX. **Measurement of the flavour composition of dijet events in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.73, no.2, 2013 (SCI-Expanded)
- CX. **Search for pair production of heavy top-like quarks decaying to a high-p(T) W boson and a b quark in the lepton plus jets final state at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.718, pp.1284-1302, 2013 (SCI-Expanded)
- CXI. **Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using 4.7 fb(-1) of root s=7 TeV proton-proton collision data**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.87, no.1, 2013 (SCI-Expanded)
- CXII. **Search for new phenomena in the WW -> vertical bar v vertical bar ' v ' final state in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.718, no.3, pp.860-878, 2013 (SCI-Expanded)
- CXIII. **Measurement of Z Boson Production in Pb-Pb Collisions at root s(NN)=2.76 TeV with the ATLAS Detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW LETTERS, vol.110, no.2, 2013 (SCI-Expanded)
- CXIV. **Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in root s=7 TeV pp collisions with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.718, no.3, pp.841-859, 2013 (SCI-Expanded)
- CXV. **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 root s=7 TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.718, no.3, pp.879-901, 2013 (SCI-Expanded)
- CXVI. **Search for contact interactions and large extra dimensions in dilepton events from pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.87, no.1, 2013 (SCI-Expanded)
- CXVII. **Search for Dark Matter Candidates and Large Extra Dimensions in Events with a Photon and Missing**

Transverse Momentum in pp Collision Data at root s=7 TeV with the ATLAS Detector

Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW LETTERS, vol.110, no.1, 2013 (SCI-Expanded)

- CXVIII. **Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at root s=7 TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.73, no.1, 2013 (SCI-Expanded)
- CXIX. **Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at root s=7 TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.73, no.1, 2013 (SCI-Expanded)
- CXX. **A Particle Consistent with the Higgs Boson Observed with the ATLAS Detector at the Large Hadron Collider**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. SCIENCE, vol.338, no.6114, pp.1576-1582, 2012 (SCI-Expanded)
- CXXI. **Search for diphoton events with large missing transverse momentum in 7 TeV proton-proton collision data with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.718, no.2, pp.411-430, 2012 (SCI-Expanded)
- CXXII. **Search for the Higgs boson in the H -> WW -> lvjj decay channel at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICS LETTERS B, vol.718, no.2, pp.391-410, 2012 (SCI-Expanded)
- CXXIII. **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**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al. PHYSICS LETTERS B, vol.718, no.2, pp.369-390, 2012 (SCI-Expanded)
- CXXIV. **Search for doubly charged Higgs bosons in like-sign dilepton final states at root s=7 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.72, no.12, 2012 (SCI-Expanded)
- CXXV. **ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at root s=7 TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. EUROPEAN PHYSICAL JOURNAL C, vol.72, no.12, 2012 (SCI-Expanded)
- CXXVI. **Search for resonant top quark plus jet production in t(t)over-bar + jets events with the ATLAS detector in pp collisions at root s=7 TeV**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW D, vol.86, no.9, 2012 (SCI-Expanded)
- CXXVII. **Measurement of the b-hadron production cross section using decays to D*(+)mu X- final states in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al. NUCLEAR PHYSICS B, vol.864, no.3, pp.341-381, 2012 (SCI-Expanded)
- CXXVIII. **Search for a Supersymmetric Partner to the Top Quark in Final States with Jets and Missing Transverse Momentum at root s=7 TeV with the ATLAS Detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al. PHYSICAL REVIEW LETTERS, vol.109, no.21, 2012 (SCI-Expanded)
- CXXIX. **Further search for supersymmetry at root s=7 TeV in final states with jets, missing transverse momentum, and isolated leptons with the ATLAS detector**

- Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICAL REVIEW D, vol.86, no.9, 2012 (SCI-Expanded)
- CXXX. **Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in root $s=7$ TeV proton-proton collisions**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.11, 2012 (SCI-Expanded)
- CXXXI. **Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at root $s=7$ TeV**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.11, 2012 (SCI-Expanded)
- CXXXII. **Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.11, 2012 (SCI-Expanded)
- CXXXIII. **Measurement of the t-channel single top-quark production cross section in pp collisions at root $s=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.
PHYSICS LETTERS B, vol.717, pp.330-350, 2012 (SCI-Expanded)
- CXXXIV. **Search for a Standard Model Higgs boson in the mass range 200-600 GeV in the $H \rightarrow ZZ \rightarrow l^{(+)}l^{(-)}q\bar{q}$ decay channel with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.717, pp.70-88, 2012 (SCI-Expanded)
- CXXXV. **Measurement of the top quark pair cross section with ATLAS in pp collisions at root $s=7$ TeV using final states with an electron or a muon and a hadronically decaying tau lepton**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.717, pp.89-108, 2012 (SCI-Expanded)
- CXXXVI. **Measurement of W gamma and Z gamma production cross sections in pp collisions at root $s=7$ TeV and limits on anomalous triple gauge couplings with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.717, pp.49-69, 2012 (SCI-Expanded)
- CXXXVII. **ATLAS measurements of the properties of jets for boosted particle searches**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.86, no.7, 2012 (SCI-Expanded)
- CXXXVIII. **Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at root(s)=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Thalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.86, no.7, 2012 (SCI-Expanded)
- CXXXIX. **Measurement of $W^{(\pm)}Z$ production in proton-proton collisions at root $s=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.10, 2012 (SCI-Expanded)
- CXL. **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**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.

- EUROPEAN PHYSICAL JOURNAL C, vol.72, no.10, 2012 (SCI-Expanded)
- CXLI. **Search for the Standard Model Higgs boson in the $H \rightarrow WW^{(*)} \rightarrow l\nu l\nu$ decay mode with 4.7 fb⁻¹ of ATLAS data at root $s=7$ TeV**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.716, no.1, pp.62-81, 2012 (SCI-Expanded)
- CXLII. **Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICS LETTERS B, vol.716, no.1, pp.1-29, 2012 (SCI-Expanded)
- CXLIII. **Evidence for the associated production of a W boson and a top quark in ATLAS at root $s=7$ TeV**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.716, no.1, pp.142-159, 2012 (SCI-Expanded)
- CXLIV. **Search for TeV-scale gravity signatures in final states with leptons and jets with the ATLAS detector at root $s=7$ TeV**
Aad G., Abbott B., Abdallah J., Abdelahm A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.716, no.1, pp.122-141, 2012 (SCI-Expanded)
- CXLV. **Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.86, no.5, 2012 (SCI-Expanded)
- CXLVI. **Search for second generation scalar leptoquarks in pp collisions at root $s=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.9, 2012 (SCI-Expanded)
- CXLVII. **Search for scalar top quark pair production in natural gauge mediated supersymmetry models with the ATLAS detector in pp collisions at root $s=7$ TeV**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.715, pp.44-60, 2012 (SCI-Expanded)
- CXLVIII. **Search for tb Resonances in Proton-Proton Collisions at root $s=7$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.8, 2012 (SCI-Expanded)
- CXLIX. **Search for Pair Production of a New b' Quark that Decays into a Z Boson and a Bottom Quark with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.7, 2012 (SCI-Expanded)
- CL. **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 ATLAS Collaboration**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinovi O., Abi B., Abolins M., AbouZeid O. S., et al.
PHYSICS LETTERS B, vol.714, pp.180-196, 2012 (SCI-Expanded)
- CLI. **Search for supersymmetry with jets, missing transverse momentum and at least one hadronically decaying tau lepton in proton-proton collisions at root $s=7$ TeV with the ATLAS detector ATLAS Collaboration**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid

- O. S., et al.
PHYSICS LETTERS B, vol.714, pp.197-214, 2012 (SCI-Expanded)
- CLII. **Combined search for the Standard Model Higgs boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICAL REVIEW D, vol.86, no.3, 2012 (SCI-Expanded)
- CLIII. **Measurement of the azimuthal anisotropy for charged particle production in $\sqrt{s(NN)}=2.76$ TeV lead-lead collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.
PHYSICAL REVIEW C, vol.86, no.1, 2012 (SCI-Expanded)
- CLIV. **Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.86, no.1, 2012 (SCI-Expanded)
- CLV. **Search for pair-produced heavy quarks decaying to Wq in the two-lepton channel at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.86, no.1, 2012 (SCI-Expanded)
- CLVI. **Search for Down-Type Fourth Generation Quarks with the ATLAS Detector in Events with One Lepton and Hadronically Decaying W Bosons**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.3, 2012 (SCI-Expanded)
- CLVII. **Search for the decay $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$ with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.713, pp.387-407, 2012 (SCI-Expanded)
- CLVIII. **Determination of the Strange-Quark Density of the Proton from ATLAS Measurements of the $W \rightarrow l\nu$ and $Z \rightarrow ll$ Cross Sections**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, vol.109, no.1, 2012 (SCI-Expanded)
- CLIX. **A search for $t\bar{t}$ resonances with the ATLAS detector in 2.05 fb^{-1} of proton-proton collisions at $\sqrt{s}=7$ TeV**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.7, 2012 (SCI-Expanded)
- CLX. **Search for heavy neutrinos and right-handed W bosons in events with two leptons and jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.7, 2012 (SCI-Expanded)
- CLXI. **Measurement of tau polarization in $W \rightarrow \tau \nu$ decays with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.7, 2012 (SCI-Expanded)
- CLXII. **Search for Supersymmetry in Events with Three Leptons and Missing Transverse Momentum in $\sqrt{s}=7$ TeV pp collisions**

$\sqrt{s}=7$ TeV pp Collisions with the ATLAS Detector

Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, vol.108, no.26, 2012 (SCI-Expanded)

CLXIII. Search for Pair Production of a Heavy Up-Type Quark Decaying to a W Boson and a b Quark in the lepton plus jets Channel with the ATLAS Detector

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, vol.108, no.26, 2012 (SCI-Expanded)

CLXIV. Search for resonant WZ production in the $WZ \rightarrow l\nu l' l'$ channel in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector

Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.

PHYSICAL REVIEW D, vol.85, no.11, 2012 (SCI-Expanded)

CLXV. Search for a Light Higgs Boson Decaying to Long-Lived Weakly Interacting Particles in Proton-Proton Collisions at $\sqrt{s}=7$ TeV with the ATLAS Detector

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, vol.108, no.25, 2012 (SCI-Expanded)

CLXVI. Search for supersymmetry in pp collisions at $\sqrt{s}=7$ TeV in final states with missing transverse momentum and b-jets with the ATLAS detector

Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.

PHYSICAL REVIEW D, vol.85, no.11, 2012 (SCI-Expanded)

CLXVII. Search for Gluinos in Events with Two Same-Sign Leptons, Jets, and Missing Transverse Momentum with the ATLAS Detector in pp Collisions at $\sqrt{s}=7$ TeV

Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.

PHYSICAL REVIEW LETTERS, vol.108, no.24, 2012 (SCI-Expanded)

CLXVIII. Measurement of the WW cross section in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector and limits on anomalous gauge couplings

Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.

PHYSICS LETTERS B, vol.712, pp.289-308, 2012 (SCI-Expanded)

CLXIX. Search for new particles decaying to ZZ using final states with leptons and jets with the ATLAS detector in $\sqrt{s}=7$ TeV proton-proton collisions

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

PHYSICS LETTERS B, vol.712, pp.331-350, 2012 (SCI-Expanded)

CLXX. Search for FCNC single top-quark production at $\sqrt{s}=7$ TeV with the ATLAS detector

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

PHYSICS LETTERS B, vol.712, pp.351-369, 2012 (SCI-Expanded)

CLXXI. Measurement of the top quark mass with the template method in the $t(\bar{t}) \rightarrow$ lepton plus jets channel using ATLAS data

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.6, 2012 (SCI-Expanded)

CLXXII. Search for lepton flavour violation in the $e\mu$ continuum with the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions at the LHC

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu

H., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.6, 2012 (SCI-Expanded)

CLXXIII. **Measurement of $t(\bar{t})$ over-bar production with a veto on additional central jet activity in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector**

Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.6, 2012 (SCI-Expanded)

CLXXIV. **Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.6, 2012 (SCI-Expanded)

CLXXV. **Search for heavy vector-like quarks coupling to light quarks in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S. s., et al.

PHYSICS LETTERS B, vol.712, pp.22-39, 2012 (SCI-Expanded)

CLXXVI. **Search for contact interactions in dilepton events from pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

PHYSICS LETTERS B, vol.712, pp.40-58, 2012 (SCI-Expanded)

CLXXVII. **Observation of Spin Correlation in $t(\bar{t})$ over-bar Events from pp Collisions at $\sqrt{s}=7$ TeV Using the ATLAS Detector**

Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.

PHYSICAL REVIEW LETTERS, vol.108, no.21, 2012 (SCI-Expanded)

CLXXVIII. **Measurement of the production cross section of an isolated photon associated with jets in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

PHYSICAL REVIEW D, vol.85, no.9, 2012 (SCI-Expanded)

CLXXIX. **Search for Production of Resonant States in the Photon-Jet Mass Distribution Using pp Collisions at $\sqrt{s}=7$ TeV Collected by the ATLAS Detector**

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW LETTERS, vol.108, no.21, 2012 (SCI-Expanded)

CLXXX. **Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel**

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

PHYSICS LETTERS B, vol.711, pp.244-263, 2012 (SCI-Expanded)

CLXXXI. **Study of jets produced in association with a W boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW D, vol.85, no.9, 2012 (SCI-Expanded)

CLXXXII. **Search for Scalar Bottom Quark Pair Production with the ATLAS Detector in pp Collisions at $\sqrt{s}=7$ TeV**

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.

PHYSICAL REVIEW LETTERS, vol.108, no.18, 2012 (SCI-Expanded)

- CLXXXIII. **Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at root s=7 TeV with the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.5, 2012 (SCI-Expanded)
- CLXXXIV. **Search for excited leptons in proton-proton collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.85, no.7, 2012 (SCI-Expanded)
- CLXXXV. **Measurement of the inclusive W-+/- and Z/gamma* cross sections in the e and mu decay channels in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.85, no.7, 2012 (SCI-Expanded)
- CLXXXVI. **Search for diphoton events with large missing transverse momentum in 1 fb(-1) of 7 TeV proton-proton collision data with the ATLAS detector ATLAS Collaboration**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.710, pp.519-537, 2012 (SCI-Expanded)
- CLXXXVII. **Search for extra dimensions using diphoton events in 7 TeV proton-proton collisions with the ATLAS detector ATLAS Collaboration**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.710, pp.538-556, 2012 (SCI-Expanded)
- LXXXVIII. **Search for the Standard Model Higgs boson in the decay channel H -> ZZ((*)) -> 4l with 4.8 fb(-1) of pp collision data at root s=7 TeV with ATLAS**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid U. S., et al.
PHYSICS LETTERS B, vol.710, no.3, pp.383-402, 2012 (SCI-Expanded)
- CLXXXIX. **Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at root s(NN)=2.76 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.710, no.3, pp.363-382, 2012 (SCI-Expanded)
- CXC. **Observation of a New X-b State in Radiative Transitions to Y(1S) and Y(2S) at ATLAS**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.15, 2012 (SCI-Expanded)
- CXCI. **Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.4, 2012 (SCI-Expanded)
- CXCII. **Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at root s=7 TeV**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.4, 2012 (SCI-Expanded)
- CXCIII. **Combined search for the Standard Model Higgs boson using up to 4.9 fb(-1) of pp collision data at root s=7 TeV with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.

- PHYSICS LETTERS B, vol.710, no.1, pp.49-66, 2012 (SCI-Expanded)
- CXCIV. **Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in root s=7 TeV proton-proton collisions**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.710, no.1, pp.67-85, 2012 (SCI-Expanded)
- CXCV. **Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.709, pp.322-340, 2012 (SCI-Expanded)
- CXCVI. **Measurement of the W(+/-)Z production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.709, pp.341-357, 2012 (SCI-Expanded)
- CXCVII. **Measurement of D*(+/-) meson production in jets from pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.85, no.5, 2012 (SCI-Expanded)
- CXCVIII. **Search for first generation scalar leptoquarks in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.709, no.3, pp.158-176, 2012 (SCI-Expanded)
- CXCIX. **Search for the Higgs Boson in the H -> WW*(l) -> l(+)vl(-)(v)over-bar Decay Channel in pp Collisions at root s=7 TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.11, 2012 (SCI-Expanded)
- CC. **Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with 4.9 fb(-1) of pp Collision Data at root s=7 TeV with ATLAS**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.11, 2012 (SCI-Expanded)
- CCI. **Rapidity gap cross sections measured with the ATLAS detector in pp collisions at root s=7 TeV**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.3, 2012 (SCI-Expanded)
- CCII. **Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.3, 2012 (SCI-Expanded)
- CCIII. **A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at root s=7 TeV with ATLAS**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.708, pp.221-240, 2012 (SCI-Expanded)
- CCIV. **Measurement of the production cross section for Z/gamma* in association with jets in pp collisions**

at root $s=7$ TeV with the ATLAS detector

Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW D, vol.85, no.3, 2012 (SCI-Expanded)

- CCV. **Search for anomalous production of prompt like-sign muon pairs and constraints on physics beyond the standard model with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICAL REVIEW D, vol.85, no.3, 2012 (SCI-Expanded)
- CCVI. **Search for new physics in the dijet mass distribution using 1 fb⁻¹ of pp collision data at root $s=7$ TeV collected by the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.708, pp.37-54, 2012 (SCI-Expanded)
- CCVII. **Measurement of the top quark pair production cross section in pp collisions at root $s=7$ TeV in dilepton final states with ATLAS**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.707, no.5, pp.459-477, 2012 (SCI-Expanded)
- CCVIII. **Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at root $s=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.707, no.5, pp.438-458, 2012 (SCI-Expanded)
- CCIX. **Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at root $s=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.707, no.5, pp.418-437, 2012 (SCI-Expanded)
- CCX. **Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.707, no.5, pp.478-496, 2012 (SCI-Expanded)
- CCXI. **Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at root $s(NN)=2.76$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.707, pp.330-348, 2012 (SCI-Expanded)
- CCXII. **Search for New Phenomena in t(t)overbar Events with Large Missing Transverse Momentum in Proton-Proton Collisions at root $s=7$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.4, 2012 (SCI-Expanded)
- CCXIII. **Measurement of the ZZ Production Cross Section and Limits on Anomalous Neutral Triple Gauge Couplings in Proton-Proton Collisions at root $s=7$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.108, no.4, 2012 (SCI-Expanded)
- CCXIV. **Measurement of the transverse momentum distribution of W bosons in pp collisions at root $s=7$ TeV with the ATLAS detector**

- Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.85, no.1, 2012 (SCI-Expanded)
- CCXV. **Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in root $s=7$ TeV pp collisions using 1 fb⁻¹ of ATLAS data**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.85, no.1, 2012 (SCI-Expanded)
- CCXVI. **Search for a heavy Standard Model Higgs boson in the channel $H \rightarrow ZZ \rightarrow l^{(+)}l^{(-)}q\bar{q}$ using the ATLAS detector**
Aad G., Abbott B., Abdallah J. J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.707, no.1, pp.27-45, 2012 (SCI-Expanded)
- CCXVII. **Measurement of the isolated diphoton cross section in pp collisions at root $s=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.85, no.1, 2012 (SCI-Expanded)
- CCXVIII. **K^s(0) and Lambda production in pp interactions at root $s=0.9$ and 7 TeV measured with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.85, no.1, 2012 (SCI-Expanded)
- CCXIX. **Measurement of the cross-section for b-jets produced in association with a Z boson at root $s=7$ TeV with the ATLAS detector ATLAS Collaboration**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.706, pp.295-313, 2012 (SCI-Expanded)
- CCXX. **Measurement of the $W \rightarrow \tau \nu(\tau)$ cross section in pp collisions at root $s=7$ TeV with the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.706, pp.276-294, 2012 (SCI-Expanded)
- CCXXI. **A study of the material in the ATLAS inner detector using secondary hadronic interactions**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
JOURNAL OF INSTRUMENTATION, vol.7, 2012 (SCI-Expanded)
- CCXXII. **Performance of missing transverse momentum reconstruction in proton-proton collisions at root $s=7$ TeV with ATLAS**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.1, 2012 (SCI-Expanded)
- CCXXIII. **Performance of the ATLAS Trigger System**
Gabaldon C.
JOURNAL OF INSTRUMENTATION, vol.7, 2012 (SCI-Expanded)
- CCXXIV. **Search for Dilepton Resonances in pp Collisions at root $s=7$ TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.27, 2011 (SCI-Expanded)
- CCXXV. **Measurement of the $Z \rightarrow \tau \tau$ cross section with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

- H., et al.
PHYSICAL REVIEW D, vol.84, no.11, 2011 (SCI-Expanded)
- CCXXVI. **Measurement of the inclusive isolated prompt photon cross-section in pp collisions at root s=7 TeV using 35 pb(-1) of ATLAS data**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.706, pp.150-167, 2011 (SCI-Expanded)
- CCXXVII. **Search for a heavy neutral particle decaying into an electron and a muon using 1 fb(-1) of ATLAS data**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.12, 2011 (SCI-Expanded)
- CCXXVIII. **Search for massive colored scalars in four-jet final states in root s=7 TeV proton-proton collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.12, 2011 (SCI-Expanded)
- CCXXIX. **Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.12, 2011 (SCI-Expanded)
- CCXXX. **Search for the Higgs Boson in the H -> WW -> l nu jj Decay Channel in pp Collisions at root s=7 TeV with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.23, 2011 (SCI-Expanded)
- CCXXXI. **Search for the Standard Model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinovi O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.705, no.5, pp.452-470, 2011 (SCI-Expanded)
- CCXXXII. **Search for the Standard Model Higgs boson in the decay channel H -> ZZ(()*()) -> 4l with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolin M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.705, no.5, pp.435-451, 2011 (SCI-Expanded)
- CCXXXIII. **Search for a Standard Model Higgs Boson in the H -> ZZ -> l(+)l(-)v(v)over-bar Decay Channel with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.22, 2011 (SCI-Expanded)
- CCXXXIV. **Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in root s=7 TeV proton-proton collisions**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.705, no.4, pp.294-312, 2011 (SCI-Expanded)
- CCXXXV. **Search for neutral MSSM Higgs bosons decaying to tau(+)tau(-) pairs in proton-proton collisions root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

- PHYSICS LETTERS B, vol.705, no.3, pp.174-192, 2011 (SCI-Expanded)
- CCXXXVI. **Measurement of the upsilon($1S$) production cross-section in pp collisions at $\sqrt{s}=7$ TeV**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.705, pp.9-27, 2011 (SCI-Expanded)
- CCXXXVII. **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 ATLAS Collaboration**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.705, pp.28-46, 2011 (SCI-Expanded)
- CCXXXVIII. **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**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.11, 2011 (SCI-Expanded)
- CCXXXIX. **Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.11, 2011 (SCI-Expanded)
- CCXL. **Search for diphoton events with large missing transverse energy with 36 pb^{-1} of 7 TeV proton-proton collision data with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.10, 2011 (SCI-Expanded)
- CCXLI. **Measurement of the differential cross-sections of inclusive, prompt and non-prompt J/ψ production in proton-proton collisions at $\sqrt{s}=7$ TeV**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
NUCLEAR PHYSICS B, vol.850, no.3, pp.387-444, 2011 (SCI-Expanded)
- CCXLII. **Search for heavy long-lived charged particles with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.703, no.4, pp.428-446, 2011 (SCI-Expanded)
- CCXLIII. **Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.84, no.5, 2011 (SCI-Expanded)
- CCXLIV. **Limits on the production of the standard model Higgs boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.9, 2011 (SCI-Expanded)
- CCXLV. **Measurement of the inelastic proton-proton cross-section at $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
NATURE COMMUNICATIONS, vol.2, 2011 (SCI-Expanded)
- CCXLVI. **Measurement of the $W+W-$ Cross Section in $\sqrt{s}=7$ TeV pp Collisions with ATLAS**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

- H., et al.
PHYSICAL REVIEW LETTERS, vol.107, no.4, 2011 (SCI-Expanded)
- CCXLVII. **Search for supersymmetry in pp collisions at root s=7 TeV in final states with missing transverse momentum and b-jets**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.701, no.4, pp.398-416, 2011 (SCI-Expanded)
- CCXLVIII. **Search for contact interactions in dimuon events from pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.84, no.1, 2011 (SCI-Expanded)
- CCXLIX. **Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in root s=7 TeV proton-proton collisions with the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.7, 2011 (SCI-Expanded)
- CCL. **Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in root s=7 TeV proton-proton collisions with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.7, 2011 (SCI-Expanded)
- CCLI. **Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.701, no.1, pp.1-19, 2011 (SCI-Expanded)
- CCLII. **Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.701, no.1, pp.50-69, 2011 (SCI-Expanded)
- CCLIII. **Measurement of the W charge asymmetry in the W -> mu nu decay mode in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.701, no.1, pp.31-49, 2011 (SCI-Expanded)
- CCLIV. **Search for a Heavy Particle Decaying into an Electron and a Muon with the ATLAS Detector in root s=7 TeV pp collisions at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.25, 2011 (SCI-Expanded)
- CCLV. **Search for pair production of first or second generation leptoquarks in proton-proton collisions at root s=7 TeV using the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.83, no.11, 2011 (SCI-Expanded)
- CCLVI. **Search for high mass dilepton resonances in pp collisions at root s=7 TeV with the ATLAS experiment**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.700, pp.163-180, 2011 (SCI-Expanded)

- CCLVII. **Measurement of underlying event characteristics using charged particles in pp collisions at root s = 900 GeV and 7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.83, no.11, 2011 (SCI-Expanded)
- CCLVIII. **A search for new physics in dijet mass and angular distributions in pp collisions at root s=7 TeV measured with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
NEW JOURNAL OF PHYSICS, vol.13, 2011 (SCI-Expanded)
- CCLIX. **Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
NEW JOURNAL OF PHYSICS, vol.13, 2011 (SCI-Expanded)
- CCLX. **Measurements of underlying-event properties using neutral and charged particles in pp collisions at root s=900 GeV and root s=7 TeV with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.5, 2011 (SCI-Expanded)
- CCLXI. **Measurement of Dijet Azimuthal Decorrelations in pp Collisions at root s=7 TeV**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.17, 2011 (SCI-Expanded)
- CCLXII. **Search for massive long-lived highly ionising particles with the ATLAS detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.698, no.5, pp.353-370, 2011 (SCI-Expanded)
- CCLXIII. **Measurement of the production cross section for W-bosons in association with jets in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.698, no.5, pp.325-345, 2011 (SCI-Expanded)
- CCLXIV. **Search for Supersymmetry Using Final States with One Lepton, Jets, and Missing Transverse Momentum with the ATLAS Detector in root s=7 TeV pp Collisions**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.13, 2011 (SCI-Expanded)
- CCLXV. **Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.106, no.12, 2011 (SCI-Expanded)
- CCLXVI. **Measurement of the inclusive isolated prompt photon cross section in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.83, no.5, 2011 (SCI-Expanded)
- CCLXVII. **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**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

- PHYSICS LETTERS B, vol.697, no.4, pp.294-312, 2011 (SCI-Expanded)
- CCLXVIII. **Study of jet shapes in inclusive jet production in pp collisions at root s=7 TeV using the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.83, no.5, 2011 (SCI-Expanded)
- CCLXIX. **Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at root s(NN)=2.76 TeV with the ATLAS Detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.105, no.25, 2010 (SCI-Expanded)
- CCLXX. **Readiness of the ATLAS Tile Calorimeter for LHC collisions**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.70, no.4, 2010 (SCI-Expanded)
- CCLXXI. **Commissioning of the ATLAS Muon Spectrometer with cosmic rays**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.70, no.3, pp.875-916, 2010 (SCI-Expanded)
- CCLXXII. **Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.70, no.3, pp.755-785, 2010 (SCI-Expanded)
- CCLXXIII. **The ATLAS Simulation Infrastructure**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.70, no.3, pp.823-874, 2010 (SCI-Expanded)
- CCLXXIV. **Readiness of the ATLAS liquid argon calorimeter for LHC collisions**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.70, no.3, pp.723-753, 2010 (SCI-Expanded)
- CCLXXV. **Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.105, no.16, 2010 (SCI-Expanded)
- CCLXXVI. **The ATLAS Inner Detector commissioning and calibration**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.70, no.3, 2010 (SCI-Expanded)
- CCLXXVII. **Charged-particle multiplicities in pp interactions at root s=900 GeV measured with the ATLAS detector at the LHC ATLAS Collaboration**
Aad G., Abat E., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., et al.
PHYSICS LETTERS B, vol.688, no.1, pp.21-42, 2010 (SCI-Expanded)
- CCLXXVIII. **The integration and engineering of the ATLAS Semiconductor Tracker Barrel**
Abdesselam A., Allport P. P., Anastopoulos C., Anderson B., Andricek L., Anghinolfi F., Apsimon R., Atkinson T., Attree D. J., Austin N., et al.
JOURNAL OF INSTRUMENTATION, vol.3, 2008 (SCI-Expanded)
- CCLXXIX. **Combined performance tests before installation of the ATLAS Semiconductor and Transition**

Radiation Tracking Detectors

Abate E., Abdesselam A., Addy T. N., Akesson T. P. A., Allport P. P., Andricek L., Anghinolfi F., Apsimon R., Arik E., Arik M., et al.

JOURNAL OF INSTRUMENTATION, vol.3, 2008 (SCI-Expanded)

CCLXXX. The data acquisition and calibration system for the ATLAS Semiconductor Tracker

Abdesselam A., Barber T., Barr A. J., Bell P., Bernabeu J., Butterworth J. M., Carter J. R., Carter A. A., Charles E., Clark A., et al.

JOURNAL OF INSTRUMENTATION, vol.3, 2008 (SCI-Expanded)

CCLXXXI. The optical links of the ATLAS SemiConductor tracker

Wilson J. A., Abdesselam A., Allport P. P., Apsimon R. J., Band C., Barr A. J., Batchelor L., Bates R., Bell P., Bernabeu J., et al.

JOURNAL OF INSTRUMENTATION, vol.2, 2007 (SCI-Expanded)

CCLXXXII. The silicon microstrip sensors of the ATLAS semiconductor tracker

Ahmad A., Albrechtskirchinger Z., Allport P. P., Alonso J., Andricek L., Apsimon R. J., Barr A. J., Bates R. L., Beck G. A., Bell P. J., et al.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.578, no.1, pp.98-118, 2007 (SCI-Expanded)

:CLXXXIII. Cosmic tests and performance of the ATLAS SemiConductor tracker barrels

Demirkoz B. M.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.572, no.1, pp.43-47, 2007 (SCI-Expanded)

:CLXXXIV. The barrel modules of the ATLAS semiconductor tracker

Abdesselam A., Akimoto T., Allport P. P., Alonso J., Anderson B., Andricek L., Anghinolfi F., Apsimon R. J., Barbier G., Barr A. J., et al.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.568, no.2, pp.642-671, 2006 (SCI-Expanded)

CCLXXXV. A study of cosmic ray secondaries induced by the Mir space station using AMS-01

Aguilar M., Alcaraz J., Allaby J., Alpat B., Ambrosi G., Anderhub H., Ao L., Arefiev A., Azzarello P., Babucci E., et al.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.234, no.3, pp.321-332, 2005 (SCI-Expanded)

:CLXXXVI. Slow control for the TRD gas supply system of AMS-02

Demirkoz B.

NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS, vol.134, pp.66-68, 2004 (SCI-Expanded)

Articles Published in Other Journals

I. Radioactivation Measurement of a Protective Collimator and Comparisons with Simulation After METU-Defocusing Beamline Pretest Irradiation

UZUN DURAN S., DEMİRKÖZ M. B., Uslu Kiceci P.

Gazi University Journal of Science, vol.36, no.4, pp.1786-1793, 2023 (ESCI)

II. Hybrid quantum classical graph neural networks for particle track reconstruction

Tuysuz C., Rieger C., Novotny K., DEMİRKÖZ M. B., Dobos D., Potamianos K., Vallecorsa S., Vlimant J., Forster R.

QUANTUM MACHINE INTELLIGENCE, vol.3, no.2, 2021 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Underwater Muon Detection System to Measure Coastal Mixed Layer Depth for Ocean and Climate Studies

Korkmaz M. A., DEMİRKÖZ M. B.

ICHEP 2024 - 42nd International Conference on High Energy Physics, PRAG, Czech Republic, 17 - 24 July 2024

- II. **Single Event Upset Tolerant TRNG Design and Its Tests Under Radiation**
Yılmaz Ö. O., DEMİRKÖZ M. B., YALÇIN M. E.
The 39th Conference on Design of Circuits and Integrated Systems (DCIS 2024), Catania, Italy, 13 - 15 November 2024
- III. **SEE Tests of candidate commercial of-the-shelf (COTS) electronic components to be used in Space Radiation Monitor**
DEMİRKÖZ M. B., ARSLAN M. Z., DÜYEN H., KILIÇ U.
INTERNATIONAL CONFERENCE ON RADIATION APPLICATIONS RAP.24, 10 - 12 June 2024
- IV. **A SPACE RADIATION MONITOR DESIGN FOR SOUNDING ROCKET FLIGHTS**
DEMİRKÖZ M. B., AKSÖZ G., ARSLAN M. Z., DEMİRCAN O. H. B., KILIÇ U., ELDEM E. H., DÜYEN H.
45th COSPAR Scientific Assembly 2024, Busan, South Korea, 13 July 2024
- V. **VULNERABILITY OF ECONOMIC SECTORS TO GEOMAGNETIC STORMS AND MITIGATION STRATEGIES**
Demirköz M. B., Karagöz G., Kadloğlu Y., Sözeri H.
39th International Symposium on Remote Sensing of Environment, ISRSE 2023, Antalya, Turkey, 24 - 28 April 2023, vol.48, pp.87-94
- VI. **Space Radiation Estimation for The Turkish Lunar Mission**
Bektasoglu B., Hüdaverdi M., Demirköz M. B.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023
- VII. **Method of producing 100 keVs ion beams from a gas jet using two intense laser pulses**
Keskin M. Y., Pring W., Pérez-Hernández J. A., Matellanes R. L., Mill J., De Luis D., Boudjema N., Varela O., García-García E., Valverde C. M., et al.
Laser Acceleration of Electrons, Protons, and Ions VII 2023, Prague, Czech Republic, 25 - 27 April 2023, vol.12579
- VIII. **JEOMANYETİK GÖZLEM EVLERİ VE K&KP İNDİSLERİ**
Demirköz M. B., Karagöz G., Kadioğlu Y. K., Sözeri H., Öcal S. E.
Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu (UZAL CBS 2022), Ankara, Turkey, 17 - 18 November 2022
- IX. **A neutron collimating structure for an anisotropic proton beam generated secondary particle source**
Muçoğllava B., Demirköz M. B., Uzun Duran S.
10th JUBILEE International Conference on Radiation in Various Fields of Research (RAD2022), Herceg Novi, Montenegro, 25 July 2022
- X. **The smart and active personal radiation monitor**
Demirköz M. B., Acer D., Çakmakçoğlu S., Demir G., Hashmani R. K., Karadöller E., Kaya S. B., Kılıç U., Tuncel M., Uğur Ö.
10TH JUBILEE INTERNATIONAL CONFERENCE ON RADIATION IN VARIOUS FIELDS OF RESEARCH (RAD 2022), Herceg Novi, Montenegro, 25 July 2022
- XI. **Determination of neutron absorption rates of 5% colemanite, ulexite, B2O3 doped HDPE materials**
Uzun Duran S., Alver Ü., Muçoğllava B., Demirköz M. B., Özkalaycı F.
10TH JUBILEE INTERNATIONAL CONFERENCE ON RADIATION IN VARIOUS FIELDS OF RESEARCH (RAD 2022), Herceg Novi, Montenegro, 25 July 2022
- XII. **METU-DBL: A Cost Effective Proton Irradiation Facility**
Demirköz M. B., Karadöller E., Çakmakçoğlu S., Uzun Duran S., Hashmani R. K., Muçoğllava B., Kayaalp A., Kılıç U., Zorlu C., Can A. B.
Committe on Space Research (COSPAR 2022), Athens, Greece, 16 - 24 July 2022
- XIII. **Design of a Space Radiation Monitor for a Sounding Rocket and Results from the First Turkish Sounding Rocket Flight**
Albarodi A., DEMİRKÖZ M. B., KILIÇ U., CAN A. B., KARADÖLLER E., BOZTEMUR D. O., ATASEVER T. C., AKTAŞ M.
Radiation and its Effects on Components and Systems (RADECS 2021), 13 September 2021
- XIV. **Design and characterization of a compact radiation monitor for space rockets**
Albarodi A., Demirköz M. B., Çalışkan A. U., Kılıç U., Boztemur D. O., Can A. B., Karadöller E., Kabuli M. G., Tavacıoğlu

L.

NINTH INTERNATIONAL CONFERENCE ON RADIATION IN VARIOUS FIELDS OF RESEARCH (RAD 2021), Montero, Bolivia, 14 June 2021

- XV. **Performance of Particle Tracking Using a Quantum Graph Neural Network**
Tüysüz C., Novotny K., Rieger C., Carminati F., DEMİRKÖZ M. B., Dobos D., Fracas F., Potamianos K., Vallecorsa S., Vlimant J.
BAŞARIM 2020 - HIGH PERFORMANCE COMPUTING CONFERENCE, Ankara, Turkey, 8 - 09 October 2020
- XVI. **Particle Track Reconstruction with Quantum Algorithms**
DEMİRKÖZ M. B., Tüysüz C., Carminati F., Dobos D., Fracas F., Novotny K., Potamianos K., Vallecorsa S., Vlimant J.
24TH INTERNATIONAL CONFERENCE ON COMPUTING IN HIGH ENERGY AND NUCLEAR PHYSICS, 04 November 2020, vol.245
- XVII. **Quantum Graph Neural Networks for Track Reconstruction in Particle Physics and Beyond**
Tüysüz C., DEMİRKÖZ M. B., Dobos D., Novotny K., Potamianos K., Carminati F., Vallecorsa S., Fracas F., Vlimant J.
4th Inter-experiment Machine Learning Workshop, 19 - 23 October 2020
- XVIII. **RADIATION DOSE CALCULATIONS OF TURKISH SCIENCE BASE REGION IN ANTARCTICA**
DEMİRKÖZ M. B., Albarodi A., Belen B., Şahin N.
4. Ulusal Kutup Bilimleri Çalıştayı, Kocaeli, Turkey, 22 October 2020, pp.48-49
- XIX. **A Quantum Graph Network Approach to Particle Track Reconstruction**
Tüysüz C., Carminati F., DEMİRKÖZ M. B., Dobos D., Fracas F., Novotny K., Potamianos K., Vallecorsa S., Vlimant J.
International Connecting the Dots Workshop, 20 - 30 April 2020
- XX. **METU-DEFOCUSING BEAMLINE : A 15-30 MeV PROTON IRRADIATION FACILITY and BEAM MEASUREMENT SYSTEM**
Demirkoz B., Seckin C., Avaroglu A., Bulbul B., Uslu P., Kilic E., Orhan Y., Akcelik S., Yigitoglu M., Saral C., et al.
6th International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications (ANIMMA), Portoroz, Slovenia, 17 - 21 June 2019, vol.225
- XXI. **FIRST USER EXPERIENCE FROM THE PRETEST SETUP AND COMMISSIONING OF THE METU DEFOCUSING BEAMLINE PROJECT**
DEMİRKÖZ M. B., İlias E., Anıl Berkay P., Caner S., Uslu P., Nazire Ç., Besna B., Abdrrahman A., Selen A., Yusuf O., et al.
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, 19 - 20 September 2019
- XXII. **Radiation Damage Studies for Fe-Based Alloys Under 30 MeV Proton Irradiation**
Uslu P., Akdeniz M. V., Mekhrabov A., Demirköz M. B.
Materials In Nuclear Energy Systems (MiNES 2019), Maryland, United States Of America, 6 - 10 October 2019
- XXIII. **Installation of the METU Defocusing Beamline to Perform Space Radiation Tests**
Demirköz M. B., Efthymiopoulos I., Poyrazoglu A. B., Seckin C., Uslu P., Celik N., Bulbul B., Albarodi A., Akcelik S., Orhan Y., et al.
9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 11 - 14 June 2019, pp.355-361
- XXIV. **Performing The First Single Event Effect Tests using The METU Defocusing Beamline Project**
Demirköz M. B.
RAD 2018 – International Conference on Radiation and Applications in Various Fields of Research”2018, Ohrid, Macedonia, 18 - 22 June 2018, vol.3, pp.128-132
- XXV. **Simulation Cosmic Radiation Dose Of A Solar Cell And A Li-Ion Battery For A Low Earth Orbit (Leo) Comparison of Two Different Orbits**
DEMİRKÖZ M. B.
COSPAR (The Committee On Space Research) 2018, Pasadena, United States Of America, 1 - 22 July 2018
- XXVI. **A Proton Irradiation Test Facility For Space Research In Ankara, Turkey**
DEMİRKÖZ M. B.
COSPAR (The Committee On Space Research) 2018, Pasadena, United States Of America, 1 - 22 July 2018
- XXVII. **METU Defocusing Beamline Project Project for The First Single Event Effect(SEE) Tests in Turkey and Test Results from the METU - DBL Preliminary Setup**
DEMİRKÖZ M. B.

- PM2018 – 14th Pisa Meeting on Advanced Detectors2018, La Biodola/Elba Adası, Italy, 27 May - 02 June 2018
- XXVIII. **The First Single Event Effect Test Campaign in Turkey at The METU Defocusing Beamline Project Preliminary Set Up**
DEMİRKÖZ M. B.
AMICSA – 7th International Workshop on Analogue and Mixed-Signal Integrated Circuits for Space Applications2018, Leuven, Belgium, 17 - 20 June 2018
- XXIX. **Metu-defocusing beam line project and beam optics studies**
Bodur B., DEMİRKÖZ M. B., Gencer A., VESKE D., Yiğitoğlu M., Efthymiopoulos I.
13th International Topical Meeting on Nuclear Applications of Accelerators 2017: The Expanding Universe of Accelerator Applications, AccApp 2017, Quebec City, Canada, 31 July - 04 August 2017, pp.458-467
- XXX. **Systems Engineering of METU Defocusing Beamline Project**
DEMİRKÖZ M. B.
8th International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 21 October 2017, pp.54
- XXXI. **METU-DEFOCUSING BEAM LINE PROJECT ANDBEAM OPTICS STUDIES**
DEMİRKÖZ M. B., GENCER A.
13th International Topical Meeting on Nuclear Applications of Accelerators, Quebec, Canada, 31 July 2017 - 03 August 2018
- XXXII. **Space Radiation Effects and Irradiation Tests of Semiconductor Devices in Turkey**
DEMİRKÖZ M. B., GENCER A.
On Radiation and Applications in Various Fields of Research, Budva, KARADAĞ, 12 - 16 June 2017, pp.203
- XXXIII. **Preliminary Test Setup of the METU Defocusing Beamline, an Irradiation Test Facility in Turkey**
DEMİRKÖZ M. B., GENCER A.
International Particle Accelerator Conference 2017, Kopenhagen, Denmark, 14 - 19 May 2017
- XXXIV. **Experimental Space Radiation Measurements, Radiation Effects and Irradiation Tests**
DEMİRKÖZ M. B.
INTERNATIONAL DEFENSE INDUSTRY SYMPOSIUM SCIENCE BOARD, Kırıkkale, Turkey, 6 - 08 April 2017
- XXXV. **Pretest Setup Installation of the METU-DBL Project to Perform Space Radiation Tests**
DEMİRKÖZ M. B., Efthymiopoulos I., Gencer A., Milanese A., Yigitoglu M., ŞAHİN İ., Baslar G. K., AYDIN M., Avaroglu A., Uslu P., et al.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.311-316
- XXXVI. **Cost Effective Total Ionizing Dose Tests of Solid State Power Amplifiers**
Ramazan U., DEMİRKÖZ M. B., Alime O.
Reinventing Space, 9 - 13 November 2015
- XXXVII. **Defocusing beam line design for an irradiation facility at the TAEA SANAEM Proton Accelerator Facility**
GENCER A., DEMİRKÖZ M. B., Efthymiopoulos I., Merve Y.
Frontier Detectors for Frontier Physics 13th Pisa Meeting on Advanced Detectors, 24 - 29 May 2015
- XXXVIII. **THE TRANSITION RADIATION DETECTOR OF THE AMS-2 EXPERIMENT**
Demirköz M. B.
Advanced Technology and Particle Physics, Milan, Italy, 15 - 19 October 2001

Episodes in the Encyclopedia

I. Kutup Bilimleri Ansiklopedisi

DAL A., KILIÇ A. M., GÜRBÜZ A., DUMLU A., Genç A., BÜYÜKSAĞNAK Y. B., MİRASOĞLU B., KARACIK B., ÖZSOY B., HEPDURGUN C., et al.
İMAK Ofset, pp., 2023

Supported Projects

DEMİR KÖZ M. B., KORKMAZ M. A., Project Supported by Higher Education Institutions, Karışmış Tabaka Belirlenmesi Amacıyla Su Altında Atmosferik Müon Sayımı Fizibilite Çalışması, 2025 - Continues

DEMİR KÖZ M. B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Parçacık Radyasyonu Testleri Oluşturma Laboratuvarı, 2015 - Continues

Demirköz M. B., AKBAŞ E., TUBITAK Project, Alfa Manyetik Spektrometresinin Verisini İşleyerek Yenilikçi Derin Öğrenme Tabanlı Görüntü İşleme Modelleri İle Pozitronların Arkaplan Protonlarından Ayrıştırılması Ve Pozitron Oranının Ölçümü, 2023 - 2026

DEMİR KÖZ M. B., ARSLAN M. Z., MUCOĞULLAVA B., USLU KİÇECİ P., KARAGÖZ G., Project Supported by Higher Education Institutions, Yarı Kıymetli Taşların Radyasyon Altındaki Değer Artışının İncelenmesi, 2021 - 2023

DEMİR KÖZ M. B., Industrial Thesis Project, Güç Yükselteç Modülleri için Toplam Doz Etkilerinin Araştırılması ve Testleri, 2014 - 2016

Demirköz M. B., EU Supported Other Project, Search for a Dark Matter Signature with the Alpha Magnetic Spectrometer AMS 02 Experiment, 2012 - 2016

DEMİR KÖZ M. B., POSTACI E., Project Supported by Higher Education Institutions, ALFA MANYETİK SPEKTROMETRESİ (AMS-02) İLE POZİTRON ANALİZİ, 2013 - 2013

DEMİR KÖZ M. B., Project Supported by Higher Education Institutions, Parçacık Dedektörleri Araştırması Ve Geliştirilmesi, 2011 - 2011

Patent

Demirköz M. B., Farklı Enerji Aralıklarında Nötron Akısını Ölçebilecek, Katı-Sıvı Moderatörlü Nötron Dedektörü, Patent, CHAPTER G Physics, The Invention Registration Number: 2019-GE-351098 , Standard Registration, 2020

Activities in Scientific Journals

Turkish Journal of Physics, Editor, 2019 - 2020

Memberships / Tasks in Scientific Organizations

Turkish Academy of Sciences, Principal Member, 2020 - Continues, Turkey

CERN Kullanıcıları Danışma Kurulu, Member of Advisory Board, 2015 - Continues, Switzerland

Metrics

Publication: 328

Citation (WoS): 26062

Citation (Scopus): 20112

H-Index (WoS): 74

H-Index (Scopus): 74

Congress and Symposium Activities

EaPEC 2022, Invited Speaker, Baku, Azerbaijan, 2022

1.Orta Doğu Uzay Atölye Testi, Invited Speaker, İstanbul, Turkey, 2019

2.Astrofest Etkinliği, Invited Speaker, Nevşehir, Turkey, 2019

Invited Talks

Uzay Radyasyonu ve Bir CERN İşbirliği Projesi, Seminar, Bursa Uludağ Üniversitesi, Turkey, December 2019
Uzay Radyasyonu Ortamı Test Laboratuvarı Projesi: Bir CERN İşbirliği, Seminar, Recep Tayyip Erdoğan Üniversitesi, Turkey, November 2019
Bilimde Kadın Olmak ve Teknoloji Üretmek, Seminar, Özel Üsküdar SEV Okulları, Turkey, May 2019
Uzay Radyasyonu ve Bir CERN İşbirliği Projesi, Seminar, Muş Alparslan Üniversitesi, Turkey, April 2019
Uzay Radyasyonu ve Bir CERN İşbirliği Projesi, Seminar, Orta Doğu Teknik Üniversitesi, Turkey, April 2019
Pizza Seminerleri, Seminar, Orta Doğu Teknik Üniversitesi, Turkey, April 2019
Uzay Radyasyonu ve Bir CERN İşbirliği Projesi, Seminar, İbni Sina Anadolu Lisesi, Turkey, April 2019

Awards

Demirköz M. B., Genç Bilim İnsanı, Türkiye İç Denetim Enstitüsü, October 2023
Demirköz M. B., ISIF'23 Altın Madalya, Bilim Sanayi Ve Teknoloji Bakanlığı, April 2023
Demirköz M. B., Uzun Duran S., ISIF'23 Gümüş Madalya, Bilim Sanayi Ve Teknoloji Bakanlığı, April 2023
Demirköz M. B., Bilime Katkı Ödülü, Bahattin Tatiş Yarınlarında Var Olmak Ödülleri, November 2022
Demirköz M. B., Akademi Kültür ve Bilim Ödülleri Yılın Temel Bilimler Ödülü, Tümbifed, March 2021
Demirköz M. B., Elginkan Vakfı Teknoloji Geliştirme Ödülü, Elginkan Vakfı, March 2019
Demirköz M. B., YÖK Üstün Başarı Kurumsal Ödülü, Yüksek Öğrenim Kurulu, September 2017
Demirköz M. B., Professional Achievement Award, British Council, February 2017

Non Academic Experience

Türkiye Bilişim Derneği
YUNUS EMRE ENSTİTÜSÜ
TÜBİTAK BİDEB
Non-profit Organisation, Dünya Ekonomik Forumu, Küresel Liderler
Other, Diğer (Kurumlar,hastaneler Vb.)
Other, Diğer (Kurumlar,hastaneler Vb.)
Non-profit Organisation, YUNUS EMRE ENSTİTÜSÜ, Üye
ROKETSAN
Non-profit Organisation, Türkiye Bilişim Derneği, Yönetim Kurulu Üyesi
CUMHURBAŞKANLIĞI Bilim, Teknoloji ve Yenilik Politikaları Kurulu
TÜBİTAK Uzay Teknolojileri Araştırma Enstitüsü
CERN
OTAK Teknoloji A.Ş.
ROKETSAN A.Ş.
TÜRKİYE ATOM ENERJİSİ KURUMU (TAEK)
ENERJİ VE TABİİ KAYNAKLAR BAKANLIĞI
TÜBİTAK Uzay Teknolojileri Enstitüsü
IFAE Barcelona
University of Cambridge
CERN