

# Prof. MELAHAT BİLGE DEMİRKÖZ

## Personal Information

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## Education Information

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

Post Graduate, Massachusetts Institute Of Technology, Fizik Bölümü, United States Of America 2001 - 2004

Under Graduate, Massachusetts Institute Of Technology, Fizik Bölümü, United States Of America 1997 - 2001

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

Undergraduate Minor, Massachusetts Institute Of Technology, Müzik 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

Post Graduate, 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

## Professional Experience

Yardımcı Üye, Diğer (Kurumlar,hastaneler Vb.), 2019 - Continues

Director of the Center, Middle East Technical University, Presidency Office, Uzay ve Hızlandırıcı Teknolojiler Uygulama ve Araştırma Merkezi (İVMER), 2019 - Continues

TABİP Bilim Kurulu Üyesi, Diğer (Kurumlar,hastaneler Vb.), 2018 - Continues

YEE Bilim Kurulu Üyesi, Diğer (Kurumlar,hastaneler Vb.), 2018 - Continues

University Executive Board Member, European Nuclear Research Center, Avrupa Nükleer Araştırma Merkezi/CERN

Kullanıcıları Danışma Kurulu Türkiye Temsilcisi, 2015 - Continues

University Executive Board Member, Cern, 2014 - 2019

Yardımcı Üye, Diğer (Kurumlar,hastaneler Vb.), 2015 - 2018

University Executive Board Member, Diğer(Kurumlar,Hastaneler Vb.), Kurumlar, Tübitak, 2014 - 2016

University Executive Board Member, Cern, Avrupa Nükleer Araştırmalar Merkezi, Cern Kullanıcıları Danışma Kurulu, 2015 - 2015

University Executive Board Member, Cern, Avrupa Nükleer Araştırmalar Merkezi, Cern Kullanıcıları Danışma Kurulu, 2014 - 2015

## Advising Theses

Akdeniz M. V. , Demirköz M. B. , RADIATION DAMAGE STUDIES OF BULK METALLIC GLASS MATERIALS UNDER PROTON IRRADIATION AND RADIOPROTECTION STUDIES FOR METU-DBL, Post Graduate, P.USLU(Student), 2019

DEMİRKÖZ M. B. , Measurement of the proton flux and variability in low earth orbit with the alpha magnetic spectrometer, Post Graduate, Ç.KONAK(Student), 2019

DEMİRKÖZ M. B. , Radiation environment predictions for the imece satellite and G4beamline simulations for the METU-DBL project, Post Graduate, M.YİĞİTOĞLU(Student), 2017

DEMİRKÖZ M. B. , Calorimetric mode photon analysis using the alpha magnetic spectrometer (AMS-02), Post Graduate, C.TÜRKOĞLU(Student), 2015

DEMİRKÖZ M. B. , Design of an irradiation test facility for space applications, Post Graduate, D.KIZILÖREN(Student), 2014

DEMİRKÖZ M. B. , Conversion mode photon analysis using the alpha magnetic spectrometer (AMS-02), Post Graduate, E.POSTACI(Student), 2014

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **METU defocusing beamline project for the first SEE tests in Turkey and the test results from the METU-DBL preliminary setup**  
Demirköz B., Nigdeliöglü S., Yigitoglu M., Aydın S., Efthymiopoulos I.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.936, pp.54-56, 2019 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **Jet energy measurement and its systematic uncertainty in proton-proton collisions at root 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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at  $\sqrt{s}=7\text{TeV}$  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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at  $\sqrt{s}=7\text{ TeV}$  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 (Journal Indexed in SCI)
- XXIII. **Measurement of  $\chi(c1)$  and  $\chi(c2)$  production with  $\sqrt{s}=7\text{ TeV}$  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 (Journal Indexed in SCI)
- XXIV. **The differential production cross section of the  $\phi(1020)$  meson in  $\sqrt{s}=7\text{ TeV}$  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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **Study of heavy-flavor quarks produced in association with top-quark pairs at  $\sqrt{s}=7\text{ TeV}$  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 (Journal Indexed in SCI)
- XXVII. **Measurement of the production cross section of prompt  $j/\psi$  mesons in association with a W (+/-) boson in pp collisions  $\sqrt{s}=7\text{ TeV}$  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 (Journal Indexed in SCI)
- XXVIII. **Measurement of the inclusive isolated prompt photons cross section in pp collisions at  $\sqrt{s}=7\text{ TeV}$  with the ATLAS detector using  $4.6\text{ fb}^{-1}$**   
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 (Journal Indexed in SCI)
- XXIX. **Search for Quantum Black Hole Production in High-Invariant-Mass Lepton plus Jet Final States Using pp Collisions at  $\sqrt{s}=8\text{ TeV}$  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 (Journal Indexed in SCI)
- XXX. **Search for a multi-Higgs-boson cascade in  $W^{+}W^{-}b\bar{b}$  events with the ATLAS detector in pp collisions at  $\sqrt{s}=8\text{ TeV}$**   
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 (Journal Indexed in SCI)

- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **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 (Journal Indexed in SCI)
- XLIII. **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 (Journal Indexed in SCI)

- XLIV. 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 (Journal Indexed in SCI)
- XLV. 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 (Journal Indexed in SCI)
- XLVI. 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 (Journal Indexed in SCI)
- XLVII. 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 (Journal Indexed in SCI)
- XLVIII. 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 (Journal Indexed in SCI)
- XLIX. 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 (Journal Indexed in SCI)
- L. 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 (Journal Indexed in SCI)
- LI. 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 (Journal Indexed in SCI)
- LII. 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 (Journal Indexed in SCI)
- LIII. 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 (Journal Indexed in SCI)
- LIV. 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 (Journal Indexed in SCI)
- LV. 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 (Journal Indexed in SCI)
- LVI. Search for resonant diboson production in the WW/WZ -> lνjj decay channels with the ATLAS detector 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.87, no.11, 2013 (Journal Indexed in SCI)

- LVII. **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**  
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PHYSICS LETTERS B, vol.720, pp.277-308, 2013 (Journal Indexed in SCI)

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- CXXI. **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.  
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- CXXII. **Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector**  
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- CXXIII. **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.  
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- CXXIV. **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.  
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- CXXV. **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.  
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- CXXVI. **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.  
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- CXXVII. **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.  
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- CXXVIII. **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.  
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- CXXIX. **Combined search for the Standard Model Higgs boson in pp collisions at fffffi 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.

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- CXXX. **Measurement of the azimuthal anisotropy for charged particle production in root  $s(NN)=2.76$  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.  
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- CXXXI. **Measurement of inclusive jet and dijet production in pp collisions at root  $s=7$  TeV using the ATLAS detector**  
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- CXXXII. **Search for pair-produced heavy quarks decaying to  $Wq$  in the two-lepton channel 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.  
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- CXXXIII. **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.  
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- CXXXIV. **Search for the decay  $B-s(0) \rightarrow \mu(+)\mu(-)$  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.  
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- CXXXV. **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.  
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- CXXXVI. **Measurement of tau polarization in  $W \rightarrow \tau \nu$  decays with the ATLAS detector in pp collisions at root  $s=7$  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.  
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- CXXXVII. **Search for heavy neutrinos and right-handed W bosons in events with two leptons and 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., AbouZeid O. S., Abramowicz H., et al.  
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- CXXXVIII. **A search for  $t(\bar{t})$  resonances with the ATLAS detector in  $2.05 \text{ fb}^{-1}$  of proton-proton 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.  
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- CXXXIX. **Search for Supersymmetry in Events with Three Leptons and Missing Transverse Momentum in root  $s=7$  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.  
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- CXL. **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 (Journal Indexed in SCI)

**CXLI. 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 (Journal Indexed in SCI)

**CXLII. 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 (Journal Indexed in SCI)

**CXLIII. 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 (Journal Indexed in SCI)

**CXLIV. 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 (Journal Indexed in SCI)

**CXLV. 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 (Journal Indexed in SCI)

**CXLVI. 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 (Journal Indexed in SCI)

**CXLVII. 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 (Journal Indexed in SCI)

**CXLVIII. 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 (Journal Indexed in SCI)

**CXLIX. 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 (Journal Indexed in SCI)

**CL. 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 (Journal Indexed in SCI)
- CLI. **Measurement of  $t(\bar{t})$  over-bar production with a veto on additional central jet activity in pp collisions at root  $s=7$  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 (Journal Indexed in SCI)
- CLII. **Search for heavy vector-like quarks coupling to light quarks 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. s., et al.  
PHYSICS LETTERS B, vol.712, pp.22-39, 2012 (Journal Indexed in SCI)
- CLIII. **Search for contact interactions in dilepton 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., AbouZeid O. S., Abramowicz H., et al.  
PHYSICS LETTERS B, vol.712, pp.40-58, 2012 (Journal Indexed in SCI)
- CLIV. **Observation of Spin Correlation in  $t(\bar{t})$  over-bar Events from pp Collisions at root  $s=7$  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 (Journal Indexed in SCI)
- CLV. **Measurement of the production cross section of an isolated photon associated with jets 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.9, 2012 (Journal Indexed in SCI)
- CLVI. **Search for Production of Resonant States in the Photon-Jet Mass Distribution Using pp Collisions 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.  
PHYSICAL REVIEW LETTERS, vol.108, no.21, 2012 (Journal Indexed in SCI)
- CLVII. **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 (Journal Indexed in SCI)
- CLVIII. **Study of jets produced in association with a W boson 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.9, 2012 (Journal Indexed in SCI)
- CLIX. **Search for Scalar Bottom Quark Pair Production 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.  
PHYSICAL REVIEW LETTERS, vol.108, no.18, 2012 (Journal Indexed in SCI)
- CLX. **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 (Journal Indexed in SCI)

- CLXI. **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 (Journal Indexed in SCI)
- CLXII. **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 (Journal Indexed in SCI)
- CLXIII. **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 (Journal Indexed in SCI)
- CLXIV. **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 (Journal Indexed in SCI)
- CLXV. **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 (Journal Indexed in SCI)
- CLXVI. **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 (Journal Indexed in SCI)
- CLXVII. **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 (Journal Indexed in SCI)
- CLXVIII. **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.  
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- CLXIX. **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 (Journal Indexed in SCI)
- CLXX. **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 (Journal Indexed in SCI)
- CLXXI. **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 (Journal Indexed in SCI)
- CLXXII. **Measurement of the  $W(+/-)Z$  production cross section and limits on anomalous triple gauge couplings 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., Abramowicz H., Abreu H., et al.  
PHYSICS LETTERS B, vol.709, pp.341-357, 2012 (Journal Indexed in SCI)
- CLXXIII. **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 (Journal Indexed in SCI)
- CLXXIV. **Measurement of  $D^*(+/-)$  meson production in jets 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., Abramowicz H., Abreu H., et al.  
PHYSICAL REVIEW D, vol.85, no.5, 2012 (Journal Indexed in SCI)
- CLXXV. **Search for first generation scalar leptoquarks 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.  
PHYSICS LETTERS B, vol.709, no.3, pp.158-176, 2012 (Journal Indexed in SCI)
- CLXXVI. **Search for the Higgs Boson in the  $H \rightarrow WW^{(*)} \rightarrow l^{(+)}\nu l^{(-)}(\bar{\nu})$  Decay Channel 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 LETTERS, vol.108, no.11, 2012 (Journal Indexed in SCI)
- CLXXVII. **Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with  $4.9 \text{ fb}^{-1}$  of pp Collision Data at  $\sqrt{s}=7$  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 (Journal Indexed in SCI)
- CLXXVIII. **Rapidity gap cross sections measured 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.  
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.3, 2012 (Journal Indexed in SCI)
- CLXXIX. **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 (Journal Indexed in SCI)
- CLXXX. **Measurement of the production cross section for  $Z/\gamma^*$  in association with 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., Abramowicz H., Abreu H., et al.  
PHYSICAL REVIEW D, vol.85, no.3, 2012 (Journal Indexed in SCI)
- CLXXXI. **A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at  $\sqrt{s}=7$  TeV with ATLAS**  
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 (Journal Indexed in SCI)
- CLXXXII. **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 (Journal Indexed in SCI)

**CLXXXIII. 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.

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**CLXXXIV. Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS**

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**CLXXXV. 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.

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**CLXXXVI. Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at root s=7 TeV with the ATLAS detector**

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**CLXXXVII. 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.

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**.LXXXVIII. 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.

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**CLXXXIX. 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.

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**CXC. 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.

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**CXCI. 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.

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**CXCII. Measurement of the transverse momentum distribution of W bosons in pp collisions at root s=7 TeV with the ATLAS detector**

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- CXCIII. **Search for a heavy Standard Model Higgs boson in the channel  $H \rightarrow ZZ \rightarrow l^{(+)}l^{(-)} q\bar{q}$  using the ATLAS detector**  
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- CXCIV. **Measurement of the isolated diphoton cross section 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.  
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- CXCV.  **$K_s(0)$  and  $\Lambda$  production in pp interactions at  $\sqrt{s}=0.9$  and 7 TeV measured with the ATLAS detector at the LHC**  
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- CCIII. **Measurement of the inclusive isolated prompt photon cross-section in pp collisions at  $\sqrt{s}=7$  TeV using 35 pb<sup>-1</sup> 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.

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- CCXII. **Search for neutral MSSM Higgs bosons decaying to tau(+)tau(-) pairs in proton-proton collisions root s=7 TeV with the ATLAS detector**  
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Aad G., Abbott B., Abdallah J., Abdelalim A. A. , Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
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- CCXV. **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., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
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- CCXVI. **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**  
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Aad G., Abbott B., Abdallah J., Abdelalim A. A. , Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
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Aad G., Abbott B., Abdallah J., Abdelalim A. A. , Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
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Aad G., Abbott B., Abdallah J., Abdelalim A. A. , Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
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- II. **Quantum Graph Neural Networks for Track Reconstruction in Particle Physics and Beyond**  
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- XX. **Defocusing beam line design for an irradiation facility at the TAEA SANAEM Proton Accelerator Facility**  
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- XXI. **THE TRANSITION RADIATION DETECTOR OF THE AMS-2 EXPERIMENT**  
Demirköz M. B.  
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## Supported Projects

- DEMİR KÖZ M. B. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Parçacık Radyasyonu Testleri Oluşturma Laboratuvarı, 2015 - Continues
- Demirköz M. B. , Other Supported Projects, Alfa Manyetik Spektrometresi (AMS-02) ile Düşük Dünya Yörüngesinde Helyum ve Ağır İyon Akı Analizi, AMS-02 Verilerinin Makine Öğrenmesi ile İşlenmesi ve Kuantum Algoritmalarla Parçacık İzi Oluşturma Algoritmaları Geliştirilmesi, 2020 - 2023
- Demirköz M. B. , Uzun Duran S., Alver Ü., TUBITAK Project, BOR İÇERİKLİ NÖTRON ZIRHLAMA MALZEMELERİNİN GELİŞTİRİLMESİ, 2020 - 2022
- Demirköz M. B. , Other Supported Projects, Alfa Manyetik Spektrometresi (AMS-02) Deneyi ile Proton Akısı Ölçümü ve Uzun Radyasyon Ortamı Analizi, 2016 - 2019
- DEMİR KÖZ M. B. , Industrial Thesis Project, Güç Yükselteç Modülleri için Toplam Doz Etkilerinin Araştırılması ve Testleri, 2014 - 2016
- Demirköz M. B. , Project Supported by Higher Education Institutions, Parçacık ve Nükleer Fizikte Deneysel Kapasite Geliştirme Projesi, 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
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- 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, Initial Registration, 2020

## Activities in Scientific Journals

- Turkish Journal of Physics, Editor, 2019 - Continues

## Memberships / Tasks in Scientific Organizations

## Invited Congress and Symposium Activities

- 1.Orta Doğu Uzay Atölye Testi, Invited Speaker, İstanbul, Turkey, 2019
- 2.Astrofest Etkinliği, Invited Speaker, Nevşehir, Turkey, 2019

## Citations

Total Citations (WOS):24142

h-index (WOS):73

## 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. , Elginkan Vakfı Teknoloji Geliştirme Ödülü, Elginkan Vakfı, March 2019
- Demirköz M. B. , YÖK Üstün Başarı Kurumsal Ödülü, Yüksek Öğrenim Kurulu, September 2017