

## Personal Information

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## International Researcher IDs

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

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## 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

## Advising 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., DEMİRKÖZ M. B., Muçoğllava B., ÇAVA K., ASLAN M., ÖZKALAYCI 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. **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)
- V. **Ulexite/HDPE-Bi2O3/HDPE layered composites for neutron and gamma radiation shielding**  
Alver Ü., Duran S. U., Demirköz M. B., Muçoğllava B., Aslan M., Çava K., Özkalaycı F., Dindar O.  
Applied Radiation and Isotopes, vol.200, 2023 (SCI-Expanded)
- VI. **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., Muçoğllava B., Kayaalp A., et al.  
Journal of Instrumentation, vol.18, no.6, 2023 (SCI-Expanded)
- VII. **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)
- 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. **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)
- X. **Effect of proton irradiation on the performance of fluxgate sensors**  
İÇİN K., Can H., Akyol S., Uslu Kıçeci P., Topal U., ÖZTÜRK S., DEMİRKÖZ M. B., Sözeri H.  
Journal of Alloys and Compounds, vol.941, 2023 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **Radiation Testing of Commercial Rechargeable Lithium Polymer Batteries for Small Satellite Applications**  
Muçoğllava B., Karim Hashmani R., Çakmakçoğlu S., Demirköz M. B.  
Journal of the Electrochemical Society, vol.169, no.11, 2022 (SCI-Expanded)
- XIV. **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)
- XV. **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)

- XVI. **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)
- XVII. **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)
- XVIII. **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., Başegmez-Du Pree S., et al.  
PHYSICAL REVIEW LETTERS, vol.127, no.2, 2021 (SCI-Expanded)
- XIX. **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)
- XX. **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., Başegmez-du Pree S., Bates J., et al.  
PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, vol.894, pp.1-116, 2021 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **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., Erinç K., Yusuf O., Selen A., Merve Y., Çağlar S., et al.  
EPJ Web of Conferences, vol.225, pp.1008, 2020 (SCI-Expanded)
- XXIV. **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)
- XXV. **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., Eftymiopoulos I.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.936, pp.54-56, 2019 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)

XXIX. **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)

XXX. **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)

XXXI. **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)

XXXII. **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)

XXXIII. **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)

XXXIV. **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)

XXXV. **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)

XXXVI. **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)

XXXVII. **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)

XXXVIII. **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)

- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- 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. **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)
- XLVIII. **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)
- XLIX. **Measurement of the production cross section of prompt  $j/\psi$  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)
- L. **Measurement of the inclusive isolated prompt photons cross section in pp collisions at  $\sqrt{s}=7$  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 (SCI-Expanded)
- LI. **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)
- LII. **Search for a multi-Higgs-boson cascade in  $W^{+}W^{-}b\bar{b}$  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)

- LIII. **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)
- 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. **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)
- LVI. **Measurement of the mass difference between top and anti-top quarks in pp collisions at root s=7 TeV using the ATLAS detector**  
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- CXXV. **Search for resonant top quark plus jet production in  $t(\bar{t}) + jets$  events with the ATLAS detector in pp collisions at  $\sqrt{s}=7$  TeV**  
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- CXXVI. **Measurement of the b-hadron production cross section using decays to  $D^{*+} \mu X$  final states in pp collisions at  $\sqrt{s}=7$  TeV with the ATLAS detector**  
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- CXXVIII. **Further search for supersymmetry at  $\sqrt{s}=7$  TeV in final states with jets, missing transverse momentum, and isolated leptons with the ATLAS detector**  
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**detector in root s=7 TeV proton-proton collisions**

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- CXXX. **Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at root s=7 TeV**  
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- CXXXI. **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**  
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- CXXXII. **Measurement of the t-channel single top-quark production cross section in pp collisions at root s=7 TeV with the ATLAS detector**  
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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. **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.  
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- CXXXVII. **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**  
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- CXLI. **Search for TeV-scale gravity signatures in final states with leptons and jets with the ATLAS detector at root s=7 TeV**  
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- CXLIII. **Search for the Standard Model Higgs boson in the  $H \rightarrow WW^{(*)} \rightarrow l\nu l\nu$  decay mode with 4.7 fb<sup>-1</sup> 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.  
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- CXLIV. **Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector**  
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- CXLVI. **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**  
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- CXLVII. **Search for tb Resonances in Proton-Proton Collisions at root s=7 TeV with the ATLAS Detector**  
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- CXLVIII. **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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- CXLIX. **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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- CL. **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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- CLI. **Combined search for the Standard Model Higgs boson in pp collisions at fffffi root s=7 TeV with**

**the ATLAS detector**

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- CLII. **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.  
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- 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.  
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- CLIV. **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.  
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- CLV. **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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- CLVI. **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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- CLVII. **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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- CLVIII. **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.  
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- CLIX. **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.  
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- CLX. **A search for  $t(\bar{t})$  resonances with the ATLAS detector in 2.05 fb<sup>-1</sup> 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.  
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- CLXI. **Search for Supersymmetry in Events with Three Leptons and Missing Transverse Momentum in  $\sqrt{s}=7$  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)
- CLXII. **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.  
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- CLXIII. **Search for resonant WZ production in the WZ  $\rightarrow$  lvl ' l ' channel in root(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)
- CLXIV. **Search for a Light Higgs Boson Decaying to Long-Lived Weakly Interacting Particles 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.  
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- CLXV. **Search for supersymmetry in pp collisions at root 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.  
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- CLXVI. **Search for Gluinos in Events with Two Same-Sign Leptons, Jets, and Missing Transverse Momentum 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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- CLXVII. **Measurement of the W W cross section in root 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)
- CLXVIII. **Search for new particles decaying to ZZ using final states with leptons and jets 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., AbouZeid O. S., Abramowicz H., et al.  
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- CLXIX. **Search for FCNC single top-quark production 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.351-369, 2012 (SCI-Expanded)
- CLXX. **Search for lepton flavour violation in the e mu continuum 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.  
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- CLXXI. **Measurement of the top quark mass with the template method in the t(t)over-bar  $\rightarrow$  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.  
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- CLXXII. **Measurement of the charge asymmetry in top quark pair 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., AbouZeid O. S., Abramowicz 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 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 (SCI-Expanded)

**CLXXIV. 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 (SCI-Expanded)

**CLXXV. 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 (SCI-Expanded)

**CLXXVI. 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 (SCI-Expanded)

**CLXXVII. 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 (SCI-Expanded)

**CLXXVIII. 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 (SCI-Expanded)

**CLXXIX. 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)

**CLXXX. 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 (SCI-Expanded)

**CLXXXI. 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 (SCI-Expanded)

**CLXXXII. 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.  
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- CLXXXIII. **Search for excited leptons 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.7, 2012 (SCI-Expanded)
- CLXXXIV. **Measurement of the inclusive  $W$ -+/- and  $Z/\gamma^*$  cross sections in the  $e$  and  $\mu$  decay channels 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.7, 2012 (SCI-Expanded)
- CLXXXV. **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.  
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- CLXXXVI. **Search for diphoton events with large missing transverse momentum in 1 fb<sup>-1</sup> of 7 TeV proton-proton collision data with the ATLAS detector ATLAS Collaboration**  
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- CLXXXVII. **Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at  $\sqrt{s(NN)}=2.76$  TeV with the ATLAS detector**  
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- LXXXVIII. **Search for the Standard Model Higgs boson in the decay channel  $H \rightarrow ZZ^{(*)} \rightarrow 4l$  with 4.8 fb<sup>-1</sup> of  $pp$  collision data at  $\sqrt{s}=7$  TeV with ATLAS**  
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- CLXXXIX. **Observation of a New X-b State in Radiative Transitions to  $Y(1S)$  and  $Y(2S)$  at ATLAS**  
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- CXCIII. **Combined search for the Standard Model Higgs boson using up to 4.9 fb<sup>-1</sup> of  $pp$  collision data at  $\sqrt{s}=7$  TeV with the ATLAS detector at the LHC**

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- CXCIV. Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC**  
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- CXCV. 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**  
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- CXCVIII. Search for the Higgs Boson in the  $H \rightarrow WW^{(*)} \rightarrow l^{+} \nu l^{-} (\nu)$  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.  
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- CXCIX. Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with 4.9 fb<sup>-1</sup> 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.  
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- CC. Rapidity gap cross sections measured with the ATLAS detector in pp collisions at  $\sqrt{s}=7$  TeV**  
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- CCI. Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data**  
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- CCII. 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 (SCI-Expanded)
- CCIII. 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 (SCI-Expanded)
- CCIV. **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., Abidinov O., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.  
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- CCV. **Search for new physics in the dijet mass distribution using 1 fb<sup>-1</sup> 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., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
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- CCVI. **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., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
PHYSICS LETTERS B, vol.707, no.5, pp.478-496, 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., Abidinov 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., Abidinov 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., Abidinov 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. **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., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
PHYSICS LETTERS B, vol.707, pp.330-348, 2012 (SCI-Expanded)
- CCXI. **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., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
PHYSICAL REVIEW LETTERS, vol.108, no.4, 2012 (SCI-Expanded)
- CCXII. **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., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
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- CCXIII. **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<sup>-1</sup> of ATLAS data**  
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.  
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- 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.  
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- CCXV. **Search for a heavy Standard Model Higgs boson in the channel  $H \rightarrow ZZ \rightarrow l^{(+)}l^{(-)} q(q)\overline{\text{bar}}$  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)
- CCXVI. **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)
- CCXVII. **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)
- CCXVIII. **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)
- CCXIX. **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)
- CCXX. **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)
- CCXXI. **Performance of the ATLAS Trigger System**  
Gabaldon C.  
JOURNAL OF INSTRUMENTATION, vol.7, 2012 (SCI-Expanded)
- CCXXII. **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)
- CCXXIII. **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)
- CCXXIV. **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.  
PHYSICAL REVIEW D, vol.84, no.11, 2011 (SCI-Expanded)
- CCXXV. **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)

**CCXXVI. 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)

**CCXXVII. 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)

**CCXXVIII. 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)

**CCXXIX. 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)

**CCXXX. 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)

**CCXXXI. 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)

**CCXXXII. 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)

**CCXXXIII. 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)

**CCXXXIV. 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)

**CCXXXV. Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb(-1) of pp collisions at root s=7 TeV using 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.705, pp.28-46, 2011 (SCI-Expanded)
- CCXXXVI. **Measurement of the  $\text{Upsilon}(1S)$  production cross-section 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., Abramowicz H., Abreu H., et al  
PHYSICS LETTERS B, vol.705, pp.9-27, 2011 (SCI-Expanded)
- CCXXXVII. **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  
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.11, 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., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al  
EUROPEAN PHYSICAL JOURNAL C, vol.71, no.11, 2011 (SCI-Expanded)
- CCXXXIX. **Search for diphoton events with large missing transverse energy with  $36 \text{ pb}^{-1}$  of 7 TeV proton-proton collision data 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.10, 2011 (SCI-Expanded)
- CCXL. **Measurement of the differential cross-sections of inclusive, prompt and non-prompt  $J/\psi$  production in proton-proton collisions at  $\sqrt{s}=7$  TeV**  
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al  
NUCLEAR PHYSICS B, vol.850, no.3, pp.387-444, 2011 (SCI-Expanded)
- CCXLI. **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., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al  
PHYSICS LETTERS B, vol.703, no.4, pp.428-446, 2011 (SCI-Expanded)
- CCXLII. **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., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al  
PHYSICAL REVIEW D, vol.84, no.5, 2011 (SCI-Expanded)
- CCXLIII. **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., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al  
NATURE COMMUNICATIONS, vol.2, 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., Abdinov 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  $W+W^-$  Cross Section in  $\sqrt{s}=7$  TeV pp Collisions 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  
PHYSICAL REVIEW LETTERS, vol.107, no.4, 2011 (SCI-Expanded)
- CCXLVI. **Search for supersymmetry in pp collisions at  $\sqrt{s}=7$  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)

**CCXLVII. 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)

**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 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)

**CCL. 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)

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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, 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: 321

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