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International Researcher IDs

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

ScopusID: 15843124700

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

Undergraduate, 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

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

- 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)

- II. **Ulexite/HDPE-Bi2O3/HDPE layered composites for neutron and gamma radiation shielding**
ALVER Ü., Duran S. U., DEMİRKÖZ M. B., Muçoğllava B., ASLAN M., ÇAVA K., ÖZKALAYCI F., Dindar O.
Applied Radiation and Isotopes, vol.200, 2023 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **METU-DBL: a cost effective proton irradiation facility**
KARADÖLLER E., Uzun Duran S., Kılıç U., Hashmani R., DEMİRKÖZ M. B., Efthymiopoulos I., CAN A., Çakmakoglu S., Muçoğllava B., Kayaalp A., et al.
Journal of Instrumentation, vol.18, no.6, 2023 (SCI-Expanded)
- VI. **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)
- VII. **Effect of proton irradiation on the performance of fluxgate sensors**
İÇİN K., Can H., Akyol S., Uslu Kiceci P., Topal U., ÖZTÜRK S., DEMİRKÖZ M. B., Sözeri H.
Journal of Alloys and Compounds, vol.941, 2023 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **Radiation Testing of Commercial Rechargeable Lithium Polymer Batteries for Small Satellite Applications**
Muçoğllava B., Karim Hashmani R., Çakmakoglu S., Demirköz M. B.
Journal of the Electrochemical Society, vol.169, no.11, 2022 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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., Başığmez-Du Pree S., Battiston R., et al.
PHYSICAL REVIEW LETTERS, vol.127, no.27, 2021 (SCI-Expanded)
- XV. **Properties of a New Group of Cosmic Nuclei: Results from the Alpha Magnetic Spectrometer on Sodium, Aluminum, and Nitrogen**
Aguilar M., Cavasonza L. A., Alpat B., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., Başığmez-Du

- Pree S., et al.
PHYSICAL REVIEW LETTERS, vol.127, no.2, 2021 (SCI-Expanded)
- XVI. **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)
- XVII. **The Alpha Magnetic Spectrometer (AMS) on the international space station: Part II - Results from the first seven years**
Aguilar M., Ali Cavasonza L., Ambrosi G., Arruda L., Attig N., Barao F., Barrin L., Bartoloni A., Başığmez-du Pree S., Bates J., et al.
PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, vol.894, pp.1-116, 2021 (SCI-Expanded)
- XVIII. **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)
- XIX. **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)
- XX. **Metu-Defocusing Beamline : A 15-30 Mev Proton Irradiation Facility and Beam Measurement System**
DEMİRKÖZ M. B., Caner S., Akanay A., Besna B., Pelin U., Erinc K., Yusuf O., Selen A., Merve Y., Çağlar S., et al.
EPJ Web of Conferences, vol.225, pp.1008, 2020 (SCI-Expanded)
- XXI. **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)
- XXII. **METU defocusing beamline project for the first SEE tests in Turkey and the test results from the METU-DBL preliminary setup**
Demirkoz B., Nigdelioglu S., Yigitoglu M., Aydin S., Efthymiopoulos I.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.936, pp.54-56, 2019 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **Defocusing beam line design for an irradiation facility at the TAEA SANAEM Proton Accelerator Facility**
Gencer A., Demirköz 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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.75, no.1, 2015 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **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., Abidinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al.
NEW JOURNAL OF PHYSICS, vol.16, 2014 (SCI-Expanded)

- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **Measurement of the production cross section of prompt j/ψ mesons in association with a W (+/-) boson in pp collisions $\sqrt{s}=7$ TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2014 (SCI-Expanded)
- XLVII. **Measurement of the inclusive isolated prompt photons cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector using 4.6 fb⁻¹**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
PHYSICAL REVIEW D, vol.89, no.5, 2014 (SCI-Expanded)
- XLVIII. **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)
- XLIX. **Search for a multi-Higgs-boson cascade in $W(+)W(-)bb$ events with the ATLAS detector in pp collisions at $\sqrt{s}=8$ 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)
- L. **Measurement of the top quark pair production charge asymmetry in proton-proton collisions at $\sqrt{s}=7$ 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)
- LI. **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)
- LII. **Search for Dark Matter in Events with a Hadronically Decaying W or Z Boson and Missing Transverse Momentum in pp Collisions at $\sqrt{s}=8$ 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)
- LIII. **Search for new phenomena in photon plus jet events collected in proton-proton collisions at root s=8 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., Abramowicz H., et al.
PHYSICS LETTERS B, vol.728, pp.562-578, 2014 (SCI-Expanded)
- LIV. **Measurement of the mass difference between top and anti-top quarks in pp collisions at root s=7 TeV using the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al.
PHYSICS LETTERS B, vol.728, pp.363-379, 2014 (SCI-Expanded)
- LV. **Measurement of jet shapes in top-quark pair events at root s=7 TeV using the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdinov O., Aben R., Abi B., Abolins M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.12, 2013 (SCI-Expanded)
- LVI. **Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at root(s)=8 TeV with the ATLAS detector**
Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S., et al.
PHYSICAL REVIEW D, vol.88, no.11, 2013 (SCI-Expanded)
- LVII. **Measurement of Top Quark Polarization in Top-Antitop Events from Proton- Proton Collisions at root s=7 TeV Using the ATLAS Detector**
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- CLI. **Search for pair-produced heavy quarks decaying to Wq in the two-lepton channel at $\sqrt{s}=7$ TeV with the ATLAS detector**

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- CLII. **Search for Down-Type Fourth Generation Quarks with the ATLAS Detector in Events with One Lepton and Hadronically Decaying W Bosons**

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- CLIII. **Search for the decay $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$ with the ATLAS detector**

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PHYSICS LETTERS B, vol.713, pp.387-407, 2012 (SCI-Expanded)

- CLIV. **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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- CLV. **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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- CLVI. **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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- CLVII. **A search for $t(\bar{t})$ resonances with the ATLAS detector in 2.05 fb⁻¹ of proton-proton collisions at $\sqrt{s}=7$ TeV**

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- CLVIII. **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.

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- CLIX. **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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- CLX. **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**

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

- CLXI. **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

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- CLXII. **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**
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- CLXIII. **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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- CLXIV. **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.
PHYSICS LETTERS B, vol.712, pp.331-350, 2012 (SCI-Expanded)
- CLXV. **Measurement of the WW 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.
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- CLXVI. **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.
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- CLXVII. **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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- CLXVIII. **Measurement of t(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.
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- CLXIX. **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.
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- CLXX. **Measurement of the top quark mass with the template method in the t(t)over-bar -> 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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- CLXXI. **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)

- CLXXII. **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)
- CLXXIII. **Observation of Spin Correlation in t(t)-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)
- CLXXIV. **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)
- CLXXV. **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)
- CLXXVI. **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.
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- CLXXVII. **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.
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- CLXXVIII. **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.
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- CLXXIX. **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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- CLXXX. **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.
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- CLXXXI. **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.
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- CLXXXII. **Search for diphoton events with large missing transverse momentum in 1 fb(-1) of 7 TeV proton-**

proton collision data with the ATLAS detector ATLAS Collaboration

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

PHYSICS LETTERS B, vol.710, pp.519-537, 2012 (SCI-Expanded)

CLXXXIII. Search for extra dimensions using diphoton events in 7 TeV proton-proton collisions with the ATLAS detector ATLAS Collaboration

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

PHYSICS LETTERS B, vol.710, pp.538-556, 2012 (SCI-Expanded)

CLXXXIV. 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

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

PHYSICS LETTERS B, vol.710, no.3, pp.363-382, 2012 (SCI-Expanded)

CLXXXV. Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow 4l$ with 4.8 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 U. S., et al.

PHYSICS LETTERS B, vol.710, no.3, pp.383-402, 2012 (SCI-Expanded)

CLXXXVI. Observation of a New X-b State in Radiative Transitions to $Y(1S)$ and $Y(2S)$ at ATLAS

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

PHYSICAL REVIEW LETTERS, vol.108, no.15, 2012 (SCI-Expanded)

CLXXXVII. Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector

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

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.4, 2012 (SCI-Expanded)

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CLXXXIX. Combined search for the Standard Model Higgs boson using up to 4.9 fb⁻¹ of pp collision data at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC

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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CXC. Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s}=7$ TeV proton-proton collisions

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CXCI. Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC

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CXCII. 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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- CXCIII. **Search for first generation scalar leptoquarks in pp collisions at root s=7 TeV with the ATLAS detector**
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- CXCIV. **Measurement of D*(+/-) meson production in jets from pp collisions at root s=7 TeV with the ATLAS detector**
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- CXCV. **Search for the Higgs Boson in the H -> WW*(*) -> l(+)vl(-)(v)over-bar Decay Channel in pp Collisions at root s=7 TeV with the ATLAS Detector**
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- CXCVI. **Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with 4.9 fb(-1) of pp Collision Data at root s=7 TeV with ATLAS**
Aad G., Abbott B., Abdallah J., Khalek S. A., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., AbouZeid O. S., et al.
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- CXCVII. **Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data**
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- CXCVIII. **Rapidity gap cross sections measured with the ATLAS detector in pp collisions at root s=7 TeV**
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- CXCIX. **A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at root s=7 TeV with ATLAS**
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- CC. **Measurement of the production cross section for Z/gamma* in association with jets in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
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- CCI. **Search for anomalous production of prompt like-sign muon pairs and constraints on physics beyond the standard model with the ATLAS detector**
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- CCII. **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**
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- CCIII. **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

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CCIV. 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.

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CCV. 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.

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

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CCVII. 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

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CCVIII. Search for New Phenomena in $t(\bar{t})$ overbar Events with Large Missing Transverse Momentum in Proton-Proton Collisions at root $s=7$ TeV with the ATLAS Detector

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CCIX. 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

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CCX. 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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CCXI. 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., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.

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CCXII. Search for a heavy Standard Model Higgs boson in the channel $H \rightarrow ZZ \rightarrow l^{(+)}l^{(-)} q(\bar{q})$ using the ATLAS detector

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

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CCXIII. Measurement of the isolated diphoton cross section in pp collisions at root $s=7$ TeV with the ATLAS detector

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- CCXIV. **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**
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- CCXV. **Measurement of the W -> tau nu(tau) cross section in pp collisions at root s=7 TeV with the ATLAS experiment**
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- CCXVI. **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.
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- CCXVII. **A study of the material in the ATLAS inner detector using secondary hadronic interactions**
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- CCXVIII. **Performance of the ATLAS Trigger System**
Gabaldon C.
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- CCXIX. **Performance of missing transverse momentum reconstruction in proton-proton collisions at root s=7 TeV with ATLAS**
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- CCXX. **Search for Dilepton Resonances in pp Collisions at root s 7 TeV with the ATLAS Detector**
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- CCXXII. **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)
- CCXXIII. **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.
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- CCXXIV. **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

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- CCXXV. **Search for massive colored scalars in four-jet final states in $\sqrt{s}=7$ TeV proton-proton collisions 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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- CCXXVII. **Search for the Standard Model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC**
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- CCXXVIII. **Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ(\gamma^*) \rightarrow 4l$ with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolin M., Abramowicz H., Abreu H., et al.
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- CCXXIX. **Search for a Standard Model Higgs Boson in the $H \rightarrow ZZ \rightarrow l^{(+)}l^{(-)}\nu(\bar{\nu})$ Decay Channel with the ATLAS Detector**
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- CCXXX. **Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in $\sqrt{s}=7$ TeV proton-proton collisions**
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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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- CCXXXIII. **Measurement of the $\epsilon(1S)$ production cross-section in pp collisions at $\sqrt{s}=7$ TeV**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abidinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
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- CCXXXIV. **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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- CCXXXVII. **Measurement of the differential cross-sections of inclusive, prompt and non-prompt J/psi production in proton-proton collisions at root s=7 TeV**
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- CCXXXVIII. **Search for heavy long-lived charged particles with the ATLAS detector in pp collisions at root s=7 TeV**
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- CCXXXIX. **Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy 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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- CCXLII. **Measurement of the W+W- Cross Section in root s=7 TeV pp Collisions with ATLAS**
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- CCXLIII. **Search for supersymmetry in pp collisions at root s=7 TeV in final states with missing transverse momentum and b-jets**
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- CCXLVI. **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**
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- CCXLIX. **Measurement of the W charge asymmetry in the $W \rightarrow \mu \nu$ decay mode in pp collisions at root $s=7$ TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
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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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- CCLIII. **Measurement of underlying event characteristics using charged particles in pp collisions at root $s = 900$ GeV and 7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
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- CCLIV. **A search for new physics in dijet mass and angular distributions in pp collisions at root $s=7$ TeV measured with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Abdelalim A. A., Abdesselam A., Abdinov O., Abi B., Abolins M., Abramowicz H., Abreu H., et al.
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- CCLVI. **Measurements of underlying-event properties using neutral and charged particles in pp collisions at**

root s=900 GeV and root s=7 TeV with the ATLAS detector at the LHC

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

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CCLVII. Measurement of Dijet Azimuthal Decorrelations in pp Collisions at root s=7 TeV

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

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- CCLXXXI. **A study of cosmic ray secondaries induced by the Mir space station using AMS-01**
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Articles Published in Other Journals

- I. **Radioactivation Measurement of a Protective Collimator and Comparisons with Simulation After METU-Defocusing Beamline Pretest Irradiation**
UZUN DURAN S., DEMİRKÖZ M. B., Uslu Kiceci P.
Gazi University Journal of Science, vol.36, no.4, pp.1786-1793, 2023 (ESCI)
- II. **Hybrid quantum classical graph neural networks for particle track reconstruction**
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Refereed Congress / Symposium Publications in Proceedings

- I. **VULNERABILITY OF ECONOMIC SECTORS TO GEOMAGNETIC STORMS AND MITIGATION STRATEGIES**
Demirköz M. B., Karagöz G., Kadloğlu Y., Sözeri H.
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- II. **Space Radiation Estimation for The Turkish Lunar Mission**
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10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023
- III. **JEOMANYETİK GÖZLEM EVLERİ VE K&KP İNDİSLERİ**
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Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu (UZAL CBS 2022), Ankara, Turkey, 17 - 18 November 2022
- IV. **The smart and active personal radiation monitor**
Demirköz M. B., Acer D., Çakmakoglu S., Demir G., Hashmani R. K., Karadöller E., Kaya S. B., Kılıç U., Tuncel M., Uğur Ö.
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- V. **A neutron collimating structure for an anisotropic proton beam generated secondary particle source**

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- VI. **Determination of neutron absorption rates of 5% colemanite, ulexite, B2O3 doped HDPE materials**
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- VII. **METU-DBL: A Cost Effective Proton Irradiation Facility**
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- VIII. **Design of a Space Radiation Monitor for a Sounding Rocket and Results from the First Turkish Sounding Rocket Flight**
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- IX. **Design and characterization of a compact radiation monitor for space rockets**
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NINTH INTERNATIONAL CONFERENCE ON RADIATION IN VARIOUS FIELDS OF RESEARCH (RAD 2021), Montero, Bolivia, 14 June 2021
- X. **Performance of Particle Tracking Using a Quantum Graph Neural Network**
Tüysüz C., Novotny K., Rieger C., Carminati F., DEMİRKÖZ M. B., Dobos D., Fracas F., Potamianos K., Vallecorsa S., Vlimant J.
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- XI. **Particle Track Reconstruction with Quantum Algorithms**
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- XII. **Quantum Graph Neural Networks for Track Reconstruction in Particle Physics and Beyond**
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- XIII. **RADIATION DOSE CALCULATIONS OF TURKISH SCIENCE BASE REGION IN ANTARCTICA**
DEMİRKÖZ M. B., Albarodi A., Belen B., Şahin N.
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- XIV. **A Quantum Graph Network Approach to Particle Track Reconstruction**
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- XV. **METU-DEFOCUSING BEAMLINE : A 15-30 MeV PROTON IRRADIATION FACILITY and BEAM MEASUREMENT SYSTEM**
Demirköz B., Seckin C., Avaroğllu A., Bulbul B., Uslu P., Kilic E., Orhan Y., Akcelik S., Yigitogllu M., Saral C., et al.
6th International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications (ANIMMA), Portoroz, Slovenia, 17 - 21 June 2019, vol.225
- XVI. **FIRST USER EXPERIENCE FROM THE PRETEST SETUP AND COMMISSIONING OF THE METU DEFOCUSING BEAMLINE PROJECT**
DEMİRKÖZ M. B., İlias E., Anıl Berkay P., Caner S., Uslu P., Nazire Ç., Besna B., Abdrrahman A., Selen A., Yusuf O., et al.
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- XVII. **Radiation Damage Studies for Fe-Based Alloys Under 30 MeV Proton Irradiation**
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- XVIII. **Installation of the METU Defocusing Beamline to Perform Space Radiation Tests**
Demirköz M. B., Efthymiopoulos I., Poyrazoğllu A. B., Seckin C., Uslu P., Celik N., Bulbul B., Albarodi A., Akcelik S.,

Orhan Y., et al.

9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 11 - 14 June 2019, pp.355-361

- XIX. **Performing The First Single Event Effect Tests using The METU Defocusing Beamline Project**
Demirköz M. B.
RAD 2018 – International Conference on Radiation and Applications in Various Fields of Research”2018, Ohrid, Macedonia, 18 - 22 June 2018, vol.3, pp.128-132
- XX. **A Proton Irradiation Test Facility For Space Research In Ankara, Turkey**
DEMİRKÖZ M. B.
COSPAR (The Committee On Space Research) 2018, Pasadena, United States Of America, 1 - 22 July 2018
- XXI. **Simulation Cosmic Radiation Dose Of A Solar Cell And A Li-Ion Battery For A Low Earth Orbit (Leo) Comparison of Two Different Orbits**
DEMİRKÖZ M. B.
COSPAR (The Committee On Space Research) 2018, Pasadena, United States Of America, 1 - 22 July 2018
- XXII. **METU Defocusing Beamline Project Project for The First Single Event Effect(SEE) Tests in Turkey and Test Results from the METU - DBL Preliminary Setup**
DEMİRKÖZ M. B.
PM2018 – 14th Pisa Meeting on Advanced Detectors2018, La Biodola/Elba Adası, Italy, 27 May - 02 June 2018
- XXIII. **The First Single Event Effect Test Campaign in Turkey at The METU Defocusing Beamline Project Preliminary Set Up**
DEMİRKÖZ M. B.
AMICSA – 7th International Workshop on Analogue and Mixed-Signal Integrated Circuits for Space Applications2018, Leuven, Belgium, 17 - 20 June 2018
- XXIV. **Systems Engineering of METU Defocusing Beamline Project**
DEMİRKÖZ M. B.
8th International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 21 October 2017, pp.54
- XXV. **METU-DEFOCUSING BEAM LINE PROJECT ANDBEAM OPTICS STUDIES**
DEMİRKÖZ M. B., GENCER A.
13th International Topical Meeting on Nuclear Applications of Accelerators, Quebec, Canada, 31 July 2017 - 03 August 2018
- XXVI. **Pretest Setup Installation of the METU-DBL Project to Perform Space Radiation Tests**
DEMİRKÖZ M. B., Efthymiopoulos I., Gencer A., Milanese A., Yigitoglu M., ŞAHİN İ., Baslar G. K., AYDIN M., Avaroglu A., Uslu P., et al.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.311-316
- XXVII. **Space Radiation Effects and Irradiation Tests of Semiconductor Devices in Turkey**
DEMİRKÖZ M. B., GENCER A.
On Radiation and Applications in Various Fields of Research, Budva, KARADAĞ, 12 - 16 June 2017, pp.203
- XXVIII. **Preliminary Test Setup of the METU Defocusing Beamline, an Irradiation Test Facility in Turkey**
DEMİRKÖZ M. B., GENCER A.
International Particle Accelerator Conference 2017, Kopenhag, Denmark, 14 - 19 May 2017
- XXIX. **Experimental Space Radiation Measurements, Radiation Effects and Irradiation Tests**
DEMİRKÖZ M. B.
INTERNATIONAL DEFENSE INDUSTRY SYMPOSIUM SCIENCE BOARD, Kırıkkale, Turkey, 6 - 08 April 2017
- XXX. **Cost Effective Total Ionizing Dose Tests of Solid State Power Amplifiers**
Ramazan U., DEMİRKÖZ M. B., Alime O.
Reinventing Space, 9 - 13 November 2015
- XXXI. **Defocusing beam line design for an irradiation facility at the TAEA SANAEM Proton Accelerator Facility**
GENCER A., DEMİRKÖZ M. B., Efthymiopoulos I., Merve Y.
Frontier Detectors for Frontier Physics 13th Pisa Meeting on Advanced Detectors, 24 - 29 May 2015

XXXII. THE TRANSITION RADIATION DETECTOR OF THE AMS-2 EXPERIMENT

Demirköz M. B.

Advanced Technology and Particle Physics, Milan, Italy, 15 - 19 October 2001

Supported Projects

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

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

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

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

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

Patent

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

Activities in Scientific Journals

Turkish Journal of Physics, Editor, 2019 - 2020

Memberships / Tasks in Scientific Organizations

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

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

Metrics

Publication: 316

Citation (WoS): 25729

Citation (Scopus): 20108

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

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

Non-profit Organisation, Türkiye Bilişim Derneği, Yönetim Kurulu Üyesi
Türkiye Bilişim Derneği
YUNUS EMRE ENSTİTÜSÜ
TÜBİTAK BİDEB
Dünya Ekonomik Forumu
Other, Diğer (Kurumlar,hastaneler Vb.)
Other, Diğer (Kurumlar,hastaneler Vb.)
YUNUS EMRE ENSTİTÜSÜ
ROKETSAN
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