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Personal Information

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Education Information

Doctorate, University of London-University College London, England 2010 - 2016

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2004 - 2007

Under Graduate, Gazi University, Fen Fakültesi, Fizik Bölümü, Turkey 2000 - 2004

Dissertations

Doctorate, Measurement of the inclusive-jet cross-section in proton-proton collisions and study of Quark-Gluon Jet discrimination with the ATLAS experiment at the LHC, University of London-University College London, 2016

Post Graduate, Bazı metal 2,2'-xx-dipyridyl'xxin halojen birleşiklerinin infrared spektroskopisi ile incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2007

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Gazi University, Fen Fakültesi, Fizik Bölümü, 2014 - Continues

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

- I. **Hydrazine decomposition on nickel-embedded graphene**
GENÇ A. E. , KÜÇÜK H., ALP İ., Akca A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.58, pp.33407-33418, 2020 (Journal Indexed in SCI)
- II. **Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton collisions at root $s=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S. H. , Abouzeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.788, pp.316-335, 2019 (Journal Indexed in SCI)
- III. **Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV**
Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.78, no.11, 2018 (Journal Indexed in SCI Expanded)
- IV. **Measurement of dijet azimuthal decorrelations in pp collisions at root $s=8$ TeV with the ATLAS detector and determination of the strong coupling**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

PHYSICAL REVIEW D, vol.98, no.9, 2018 (Journal Indexed in SCI)

V. **Angular analysis of $B\text{-}d(0) \rightarrow K^* \mu^{(+)}\mu^{(-)}$ decays in pp collisions at root $s=8$ TeV with the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2018 (Journal Indexed in SCI)

VI. **Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at root $s=13$ TeV using the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2018 (Journal Indexed in SCI)

VII. **Measurements of Higgs boson properties in the diphoton decay channel with 36 fb⁻¹ of pp collision data at root $s=13$ TeV with the ATLAS detector**

Aaboud M., Collaboration A. T. L. A. S., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW D, vol.98, no.5, 2018 (Journal Indexed in SCI)

VIII. **Measurements of $t(\bar{t})$ differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at root $s=13$ TeV using the ATLAS detector**

Aaboud M., Collaboration A. T. L. A. S., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., et al.

PHYSICAL REVIEW D, vol.98, no.1, 2018 (Journal Indexed in SCI)

IX. **Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb⁻¹ of root $s=13$ TeV pp collision data with the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (Journal Indexed in SCI)

X. **Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at root $s=13$ TeV**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

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XI. **Measurement of differential cross sections and W^+/W^- cross-section ratios for W boson production in association with jets at root $s=8$ TeV with the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

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XII. **Measurement of the cross section for isolated-photon plus jet production in pp collisions at root $s=13$ TeV using the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

PHYSICS LETTERS B, vol.780, pp.578-602, 2018 (Journal Indexed in SCI)

XIII. **Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at root $s=13$ TeV with the ATLAS detector**

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2018 (Journal Indexed in SCI)

XIV. **Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 13 TeV with the ATLAS detector**

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Abreu H., et al.

PHYSICS LETTERS B, vol.780, pp.557-577, 2018 (Journal Indexed in SCI)

- XV. **Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb⁻¹ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.78, no.5, 2018 (Journal Indexed in SCI Expanded)
- XVI. **Search for heavy ZZ resonances in the $\ell+\ell-\ell+\ell-$ and $\ell+\ell-\nu\nu-$ final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
European Physical Journal C, vol.78, no.4, 2018 (Journal Indexed in SCI Expanded)
- XVII. **Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s}=13$ TeV with ATLAS**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
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- XVIII. **Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
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- XIX. **Search for WW/WZ resonance production in lvqq final states in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.
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- XX. **Searches for heavy ZZ and ZW resonances in the llqq and vvqq final states in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.
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- XXI. **ZZ \rightarrow l(+)-l'(+)-l'(-) cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW D, vol.97, no.3, 2018 (Journal Indexed in SCI)
- XXII. **Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S., AbouZeid O., Abraham N., Abramowicz H., Abreu H., et al.
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- XXIII. **Measurement of the exclusive gamma gamma \rightarrow mu(+)-mu(-) process in proton-proton collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.777, pp.303-323, 2018 (Journal Indexed in SCI)
- XXIV. **Search for diboson resonances with boson-tagged jets in pp collisions at root S=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

- PHYSICS LETTERS B, vol.777, pp.91-113, 2018 (Journal Indexed in SCI)
- XXV. **Search for heavy resonances decaying into WW in the e nu mu nu final state in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.78, no.1, 2018 (Journal Indexed in SCI)
- XXVI. **Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at root s=8 TeV using the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.776, pp.295-317, 2018 (Journal Indexed in SCI)
- XXVII. **Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2017 (Journal Indexed in SCI)
- XXVIII. **Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
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- XXIX. **Evidence for the H -> b(b)over-bar decay with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2017 (Journal Indexed in SCI)
- XXX. **Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.775, pp.206-228, 2017 (Journal Indexed in SCI)
- XXXI. **Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at root s=8 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2017 (Journal Indexed in SCI)
- XXXII. **Search for new phenomena in high-mass diphoton final states using 37 fb(-1) of proton-proton collisions collected at root s=13 TeV with the ATLAS detector**
Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
PHYSICS LETTERS B, vol.775, pp.105-125, 2017 (Journal Indexed in SCI)
- XXXIII. **Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at root s=8 TeV with the ATLAS Detector**
Aaboud M., Aad C., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
PHYSICAL REVIEW LETTERS, vol.119, no.19, 2017 (Journal Indexed in SCI)
- XXXIV. **Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at root s=8 TeV**
Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2017 (Journal Indexed in SCI)
- XXXV. **Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp**

collisions at root $s=13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2017 (Journal Indexed in SCI)

XXXVI. Measurement of lepton differential distributions and the top quark mass in $t(\bar{t})$ production in pp collisions at a root $s=8$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.11, 2017 (Journal Indexed in SCI)

XXXVII. Measurement of jet $p(T)$ correlations in Pb+Pb and pp collisions at root $s(NN)=2.76$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.

PHYSICS LETTERS B, vol.774, pp.379-402, 2017 (Journal Indexed in SCI)

XXXVIII. Measurements of top-quark pair differential cross-sections in the lepton plus jets channel in pp collisions at root $s=13$ TeV using the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.

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XXXIX. Measurement of the $t(\bar{t})$ gamma production cross section in proton-proton collisions at root $s=8$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2017 (Journal Indexed in SCI)

XL. Search for top quark decays $t \rightarrow qH$, with $H \rightarrow \gamma\gamma$, in root $s=13$ TeV pp collisions using the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2017 (Journal Indexed in SCI)

XLI. Search for pair production of heavy vector-like quarks decaying to high- $p(T)$ W bosons and b quarks in the lepton-plus-jets final state in pp collisions at root $s=13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2017 (Journal Indexed in SCI)

XLII. Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4l$ decay channel in pp collisions at root $s=13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.

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XLIII. Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at root $s=13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.

PHYSICAL REVIEW D, vol.96, no.7, 2017 (Journal Indexed in SCI)

XLIV. Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector

Aaboud M. y. , Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (Journal Indexed in SCI)

XLV. Search for new phenomena in dijet events using 37 fb⁻¹ of pp collision data collected at root $s=13$ TeV with the ATLAS detector

Aaboud M., Aad G., Abbott B., Abdallah J., Abdinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. ,

- Abramowicz H., et al.
 PHYSICAL REVIEW D, vol.96, no.5, 2017 (Journal Indexed in SCI)
- XLVI. **Measurement of $WW/WZ \rightarrow l\nu qq'$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings**
 Aaboudd M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., Abreu H., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.8, 2017 (Journal Indexed in SCI)
- XLVII. **Search for the Dimuon Decay of the Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector**
 Aaboud M., Aad G., Abbott B., Abidinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abrahm N. L. , Abramowicz H., Abreu H., et al.
 PHYSICAL REVIEW LETTERS, vol.119, no.5, 2017 (Journal Indexed in SCI)
- XLVIII. **Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1**
 Aad G., Abbott B., Abdallah J., Abidinov O., Aben R., Abolins M., AbouZeid O. S. , Abramowicz H., Abreu H., Abreu R., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.7, 2017 (Journal Indexed in SCI)
- XLIX. **Jet reconstruction and performance using particle flow with the ATLAS Detector**
 Aaboudd M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.7, 2017 (Journal Indexed in SCI)
- L. **Studies of Z gamma production in association with a high-mass dijet system in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
 Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2017 (Journal Indexed in SCI)
- LI. **Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**
 Aaboud M., Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.
 PHYSICAL REVIEW D, vol.95, no.11, 2017 (Journal Indexed in SCI)

Edit Congress and Symposium Activities

Low-x Conference, Invited Speaker, Zabrze, Poland, 2015

Hadronic Calibration Workshop (Workshop), Chicago-US, Invited Speaker, California, United States Of America, 2013

Citations

Total Citations (WOS):1312

h-index (WOS):21

Scholarships

Doktora bursu, University, 2015 - 2016

YLSY, Ministry of Education, 2007 - 2015