

## Arş.Gör. HİLAL KÜÇÜK

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, University of London-University College London, İngiltere 2010 - 2016

Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 2004 - 2007

Lisans, Gazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 2000 - 2004

### Yaptığı Tezler

Doktora, 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

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

### Araştırma Alanları

Temel Bilimler, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Araştırma Görevlisi, Gazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2014 - Devam Ediyor

### Akademik İdari Deneyim

Erasmus Koordinatörü, Gazi Üniversitesi, Fen Fakültesi, Fizik, 2019 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Hydrazine decomposition on nickel-embedded graphene**  
GENÇ A. E. , KÜÇÜK H., ALP İ., Akca A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.58, ss.33407-33418, 2020 (SCI İndekslerine Giren Dergi)
- 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**  
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- III. Performance of missing transverse momentum reconstruction with the ATLAS detector using**

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- IV. **Measurement of dijet azimuthal decorrelations in pp collisions at root s=8 TeV with the ATLAS detector and determination of the strong coupling**  
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- 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**  
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- 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**  
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- VII. **Measurements of Higgs boson properties in the diphoton decay channel with 36 fb<sup>-1</sup> of pp collision data at root s=13 TeV with the ATLAS detector**  
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- 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**  
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- IX. **Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb<sup>-1</sup> of root s=13 TeV pp collision data with the ATLAS detector**  
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- 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**  
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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**  
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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**  
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- XIII. **Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at root s=13 TeV with the ATLAS detector**

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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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XV. **Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb<sup>-1</sup> of pp collisions at  $\sqrt{s}=13$  TeV with the ATLAS experiment**

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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**

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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**

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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**

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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**

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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.,

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- XXIV. **Search for diboson resonances with boson-tagged jets in pp collisions at root S=13 TeV with the ATLAS detector**  
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- 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**  
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- 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**  
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- 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**  
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- 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**  
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- XXIX. **Evidence for the H -> b(b)over-bar decay with the ATLAS detector**  
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- 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.  
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- 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**  
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- 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**  
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- 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**  
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- XXXIV. **Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at root s=8 TeV**  
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- 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**  
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- XXXVI. **Measurement of lepton differential distributions and the top quark mass in t(t)over-bar production in pp collisions at a root s=8TeV with the ATLAS detector**  
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- XXXVII. **Measurement of jet p(T) correlations in Pb+Pb and pp collisions at root s(NN)=2.76 TeV with the ATLAS detector**  
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- 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**  
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- XXXIX. **Measurement of the t(t)over-bar gamma production cross section in proton-proton collisions at root s=8 TeV with the ATLAS detector**  
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- XL. **Search for top quark decays t -> qH,with H -> gamma gamma, in root s=13 TeV pp collisions using the ATLAS detector**  
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- 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**  
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- XLII. **Measurement of inclusive and differential cross sections in the H -> ZZ\* -> 4l decay channel in pp collisions at root s=13 TeV with the ATLAS detector**  
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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.  
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- XLIV. **Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector**

- Aaboud M. y. , Aad G., Abbott B., Abdallah J., Abidinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.  
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- 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., Abidinov O., Abeloos B., Abidi S. H. , AbouZeid O. S. , Abraham N. L. , Abramowicz H., et al.  
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- XLVI. **Measurement of WW/WZ -> lvqq ' production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at root s=8 TeV with ATLAS, and constraints on anomalous gauge couplings**  
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.  
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- XLVII. **Search for the Dimuon Decay of the Higgs Boson in pp 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.  
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- 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.  
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- XLIX. **Jet reconstruction and performance using particle flow with the ATLAS Detector**  
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- L. **Studies of Z gamma production in association with a high-mass dijet system in pp collisions at root s=8 TeV with the ATLAS detector**  
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- LI. **Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at root s=8 TeV with the ATLAS detector**  
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## Kongre ve Sempozyum Katılımı Faaliyetleri

Low-x Conference, Davetli Konuşmacı, Zabrze, Polonya, 2015

Hadronic Calibration Workshop (Workshop), Chicago-US, Davetli Konuşmacı, California, Amerika Birleşik Devletleri, 2013

## Atıflar

Toplam Atıf Sayısı (WOS):1312

h-indeksi (WOS):21

## **Burslar**

Doktora bursu, Üniversite, 2015 - 2016

YLSY, Milli Eğitim Bakanlığı, 2007 - 2015