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Education Information

Post Doctorate, Ankara Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 2008 - 2008

Doctorate, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilimdalı, Turkey 2001 - 2006

Post Graduate, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilimdalı, Turkey 1997 - 2000

Under Graduate, Ankara Üniversitesi, Fen Fakültesi, Fizik Bölümü, Turkey 1993 - 1997

Foreign Languages

Azerbaijani, C1 Advanced

Russian, C1 Advanced

English, C1 Advanced

Dissertations

Doctorate, Dördüncü Standart Model Ailesinin Lepton Çarpıştırıcılarında İncelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilimdalı, 2006

Post Graduate, Dördüncü Standart Model Ailesi Fermiyonlarının Fenomenolojisi, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilimdalı, 2000

Research Areas

Physics, Nuclear physics, Experimental Methods of Particle and Nuclear Physics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Ege Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2016 - Continues

Research Assistant, Gazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2001 - 2006

Courses

Physics, Under Graduate, 2018 - 2019

Physics II, Under Graduate, 2018 - 2019

Fizik-II, Under Graduate, 2017 - 2018

Physics-I, Under Graduate, 2018 - 2019

Thermodynamics, Under Graduate, 2018 - 2019

Fizik-I, Under Graduate, 2017 - 2018

Fizikte Yeni gelişmeler, Under Graduate, 2016 - 2017

Fizik-I, Under Graduate, 2017 - 2018

Fizik-II, Under Graduate, 2016 - 2017

Fizik-I, Under Graduate, 2016 - 2017, 2017 - 2018

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

- **HE-LHC: The High-Energy Large Hadron Collider Future Circular Collider Conceptual Design Report Volume 4**
Abada A., Abbrescia M., AbdusSalam S. S. , Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A. O. , Adzic P. R. , Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, pp.1109-1382, 2019 (Journal Indexed in SCI)
- **FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**
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- **FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1**
Abada A., Abbrescia M., AbdusSalam S. S. , Abdyukhanov I., Fernandez J. A. , Abramov A., Aburaia M., Acar A. O. , Adzic P. R. , Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.79, 2019 (Journal Indexed in SCI)
- **FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2**
Abada A., Abbrescia M., AbdusSalam S. S. , Abdyukhanov I., Fernandez J. A. , Abramov A., Aburaia M., Acar A. O. , Adzic P. R. , Agrawal P., et al.
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- **E-6 predicted isosinglet quarkonium formation**
CAGLAR C., ÇİFTÇİ R., Ciftci A. K.
CANADIAN JOURNAL OF PHYSICS, vol.96, pp.831-833, 2018 (Journal Indexed in SCI)
- **General structure of democratic mass matrix of lepton sector in E-6 model**
Ciftci A. K. , ÇİFTÇİ R.
CANADIAN JOURNAL OF PHYSICS, vol.96, pp.834-836, 2018 (Journal Indexed in SCI)
- **Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at root s(NN)=5.02 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.76, 2016 (Journal Indexed in SCI)
- **Centrality, rapidity, and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at root S-NN=2.76 TeV measured 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.
PHYSICAL REVIEW C, vol.93, 2016 (Journal Indexed in SCI)
- **Measurement of the production of neighbouring jets in lead-lead collisions at root s(NN)=2.76TeV 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.751, pp.376-395, 2015 (Journal Indexed in SCI)
- **Two-particle Bose-Einstein correlations in pp collisions at root s=0.9 and 7 TeV measured 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.
EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)
- **Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at root s=7 TeV with the ATLAS detector**
Aad G., Abbott B., Abdallah J., Khalek S. A. , Abdinov O., Aben R., Abi B., Abolins M., Abouzedi O. S. , Abramowicz H., et al.
JOURNAL OF HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)

- Centrality and rapidity dependence of inclusive jet production in $\sqrt{s}=5.02$ TeV proton-lead collisions 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.748, pp.392-413, 2015 (Journal Indexed in SCI)
- Search for new phenomena in events with three or more charged leptons in pp collisions at 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.
 JOURNAL OF HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)
- Observation and measurement of Higgs boson decays to WW^* 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.
 PHYSICAL REVIEW D, vol.92, 2015 (Journal Indexed in SCI)
- Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s}=8$ TeV**

Aad G., Abbott B., Abdallah J., Khalek S. A. , Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S. , Abramowicz H., et al.
 EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)
- Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $\sqrt{s}=7$ TeV in the ATLAS detector**

Aad G., Abbott B., Abdallah J., Abdel Khalek S., Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S. , Abramowicz H., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)
- Measurement of three-jet production cross-sections in pp collisions at 7 TeV centre-of-mass energy using 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.
 EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)
- Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s}=7$ TeV using 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.
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- Observation of top-quark pair production in association with a photon and measurement of the $t\bar{t}$ over γ production cross section in pp collisions at $\sqrt{s}=7$ TeV using 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.
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- Search for $W' \rightarrow t\bar{b} \rightarrow qqbb$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector**

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- Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at $\sqrt{s}=7$ TeV**

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- Evidence for the Higgs-boson Yukawa coupling to tau leptons 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.

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- **Search for $W' \rightarrow t(\bar{b})$ in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of 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.743, pp.235-255, 2015 (Journal Indexed in SCI)

- **Search for pair-produced long-lived neutral particles decaying to jets in the ATLAS hadronic calorimeter in pp collisions at root $s=8$ TeV**

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.743, pp.15-34, 2015 (Journal Indexed in SCI)

- **Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in pp Collisions at root $s=8$ TeV Using 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.

PHYSICAL REVIEW LETTERS, vol.114, 2015 (Journal Indexed in SCI)

- **Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm}\nu$ in fully hadronic final states using pp collision data 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.

JOURNAL OF HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)

- **Performance of the ATLAS muon trigger in pp collisions at root $s=8$ TeV**

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

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- **Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with root $s=8$ TeV pp collisions using 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.

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- **Search for new phenomena in the dijet mass distribution using pp collision data 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.

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- **Simultaneous measurements of the $t(\bar{t})$, $W+W-$, and $Z/\gamma^* \rightarrow \tau\tau$ production cross-sections in pp collisions at root $s=7$ 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.

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- **Search for Higgs Boson Pair Production in the $\gamma\gamma b(\bar{b})$ Final State Using pp Collision Data at root $s=8$ TeV from 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.

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- **Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions 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.

EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)

- **Measurement of the inclusive jet cross-section in proton-proton collisions at root $s=7$ TeV using 4.5 fb⁻¹**

of data 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.

JOURNAL OF HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)

- **Measurements of the Nuclear Modification Factor for Jets in Pb plus Pb Collisions at root SNN=2.76 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.

PHYSICAL REVIEW LETTERS, vol.114, 2015 (Journal Indexed in SCI)

- **Measurements of the W production cross sections in association with jets 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.

EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)

- **Search for invisible particles produced in association with single-top-quarks 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.

EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)

- **Measurement of the transverse polarization of Lambda and (Lambda)over-bar hyperons produced in proton-proton collisions at root s=7 TeV using 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.

PHYSICAL REVIEW D, vol.91, 2015 (Journal Indexed in SCI)

- **Search for resonant diboson production in the lq(q)over-bar final state in pp 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.

EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)

- **Search for new phenomena in events with a photon and missing transverse momentum in pp 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.

PHYSICAL REVIEW D, vol.91, 2015 (Journal Indexed in SCI)

- **Measurement of the production and lepton charge asymmetry of W bosons in Pb plus Pb collisions at root s(NN)=2.76 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.

EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)

- **Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 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.

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- **Jet energy measurement and its systematic uncertainty in proton-proton collisions at root s=7 TeV with the ATLAS detector**

Aad G., Abajyan T., Abbott B., Abdallah J., Khalek S. A. , Abdinov O., Aben R., Abi B., Abolins M., AbouZeid O. S. , et al.

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- **Search for the b(b)over-bar decay of the Standard Model Higgs boson in associated (W/Z)H production 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.

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- Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at root s=8 TeV**

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

JOURNAL OF HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)
- Measurement of the WW plus WZ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at root s=7 TeV**

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

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- Measurement of the t(t)-bar production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions 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.

JOURNAL OF HIGH ENERGY PHYSICS, pp.1-67, 2015 (Journal Indexed in SCI)
- Search for H -> gamma gamma produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 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.740, pp.222-242, 2015 (Journal Indexed in SCI)
- Search for the X-b and other hidden-beauty states in the pi(+)-pi(-)-gamma(1S) channel at ATLAS**

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.740, pp.199-217, 2015 (Journal Indexed in SCI)
- Search for s-channel single top-quark production in proton-proton collisions at root s=8 TeV with the ATLAS detector**

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- Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector**

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PHYSICAL REVIEW D, vol.90, 2014 (Journal Indexed in SCI)
- Measurements of spin correlation in top-antitop quark events from proton-proton collisions at root s=7 TeV using the ATLAS detector**

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- Measurement of inclusive jet charged-particle fragmentation functions in Pb plus Pb collisions at root S=2.76 TeV with the ATLAS detector**

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PHYSICS LETTERS B, vol.739, pp.320-342, 2014 (Journal Indexed in SCI)
- Comprehensive measurements of t-channel single top-quark production cross sections at root S=7 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.

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- Search for contact interactions and large extra dimensions in the dilepton channel using 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.

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- **Search for nonpointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC using 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.

PHYSICAL REVIEW D, vol.90, 2014 (Journal Indexed in SCI)

- **Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at root s=7 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.

EUROPEAN PHYSICAL JOURNAL C, vol.74, 2014 (Journal Indexed in SCI)

- **A measurement of the ratio of the production cross sections for W and Z bosons in association with jets 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.

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- **Measurement of the total cross section from elastic scattering in pp collisions at root s=7 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.

NUCLEAR PHYSICS B, vol.889, pp.486-548, 2014 (Journal Indexed in SCI)

- **Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data**

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

EUROPEAN PHYSICAL JOURNAL C, vol.74, 2014 (Journal Indexed in SCI)

- **Measurement of flow harmonics with multi-particle cumulants in Pb plus Pb collisions at root(NN)-N-S=2.76 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.

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- **Observation of an Excited B-c(+/-) Meson State 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.

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- **Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in root s=8 TeV pp collisions 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.

JOURNAL OF HIGH ENERGY PHYSICS, 2014 (Journal Indexed in SCI)

- **Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at root s=8 TeV with the ATLAS detector**

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