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ScopusID: 6602521151

Yoksis Researcher ID: 14406

Learning Knowledge

Doctorate 1994 - 2001	The University of Iowa, Physics Department, High Energy Physics, United States Of America
Postgraduate 1990 - 1993	Gazi University, Fen Bilimleri Enstitüsü, Atom Ve Molekül Fiziği, Turkey
Undergraduate 1986 - 1990	Gazi University, Fen Edebiyat, Fizik, Turkey

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Occupational Health and Safety, A Sınıfı İş Sağlığı ve Güvenliği Uzmanı, Çalışma ve Sosyal Güvenlik Bakanlığı, 2014

Dissertations

Doctorate, Charged K/pi Production Ratios with Sigma, Kaon and Protons on Carbon and Copper targets, The University of Iowa, Fizik, Yüksek Enerji Fiziği, 2001

Academic Titles / Tasks

Professor
2013 - Continues Istanbul University, Faculty of Science, Department of Physics

Professor

2011 - 2013

Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik

Associate Professor

2006 - 2011

Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik

Assistant Professor

2002 - 2006

Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik

Research Assistant

1999 - 2001

The University of Iowa, Physics Department, Physics

Research Assistant

1994 - 1998

Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik

Research Assistant

1990 - 1993

Gazi University, Fen Edebiyat Fakültesi, Fizik

Supported Projects

1. Gürkan G., Özkorucuklu S., Oktayoğlu S., Project Supported by Higher Education Institutions, Development of a multi-modal gel imaging system, 2022 - 2024
2. ÖZKORUCUKLU S., ALBROW M., PENZO A., GÜRKAN G., AYDILEK O., HACİSAHİNOĞLU B., Project Supported by Higher Education Institutions, CMS Detektöründe Çok İleri Bölge Fizik Analizleri ve FACET Forward Aperture CMS ExTension Detektör Tasarım Çalışmaları, 2022 - 2023
3. Sunar Çerçi D., Özkorucuklu S., Çerçi S., TÜBİTAK International Bilateral Joint Cooperation Program Project, Cms Hl-Lhc (Cern) İçin Son Derece Hassas Demet-Demet Luminometresi Geliştirilmesi , 2020 - 2023
4. Arıcı T., Özkorucuklu S., Erduran N., Yetkin T., Özok F., TUBITAK Project, Novel Gamma Camera with New Generation Data Acquisition System and Its Applications , 2020 - 2023
5. Özkorucuklu S., Şahin Yalçın L., Yetkin T., Sunar Çerçi D., Çerçi S., Özok F., Gürkan K., Doğan A., Kılinc S., Hafizoğlu Alkan N., et al., Project Supported by Other Official Institutions, 2020 - 2023
6. Özkorucuklu S., Sert H., Şahin Yalçın L., Çeliktaş C., Zorbilmez Ç., Hoş İ., Gürkan G., Işıldak B., Kaynak B., Aggez G., et al., Project Supported by Other Official Institutions, CMS Detektöründe Çok İleri Bölge Fizik Analizleri, İnklusif pp Etkileşmeleri, PPS (Hassas Proton Spektrometresi) Hassas Zaman Ölçüm Detektörü ve HCAL (Hadronik Kalorimetre) Faz 2. Güncelleme Çalışmaları, 2020 - 2023
7. ÖZKORUCUKLU S., SOYLAMIŞ A., ŞAHİN YALÇIN L., KAYNAK B., GÜRKAN G., SERT H., ZORBİLMEZ Ç., Project Supported by Higher Education Institutions, CERN CMS Deneyi Üyeliği Yüksek Enerji Fiziği ve Detektör Geliştirme Çalışmaları, 2018 - 2022
8. ÖZKORUCUKLU S., EROL A., Project Supported by Higher Education Institutions, Genel Amaçlı Radyasyon Detektörleri Test Düzeneği Kurulumu, 2015 - 2017
9. ÖZKORUCUKLU S., Project Supported by Higher Education Institutions, Muon Tomografisi Üzerine Simülasyon Çalışmaları, 2015 - 2017
10. Özkorucuklu S., Gülmez E., Project Supported by Other Official Institutions, CMS Dedektöründe Veri Keşfi, Jetler, B-Fiziği ve Birinci Faz Sonra Dedektör Güncellemesi Çalışmaları, 2014 - 2017
11. Yavaş Ö., Akkuş B., Özkorucuklu S., Öktem Y., Şahin Yalçın L., Demir B., Ganioğlu Nutku E., Çakırlı Mutlu R. B., Susam L., Küçer R., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Türk Hızlandırıcı Merkezinin Teknik

Tasarımı ve Test Laboratuvarlarının Kurulması, 2011 - 2015

12. Özkorucuklu S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Türk Hızlandırıcı Merkezinin Teknik Tasarımı ve Test Laboratuvarları", DPT Araştırma Projesi, 2006 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Measurement of the polarizations of prompt and non-prompt [Formula presented] and $\psi(2S)$ mesons produced in pp collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.858, 2024 (SCI-Expanded)
2. **Study of time resolution measurements and prospects for energy resolution of an ultra-compact sampling calorimeter (RADiCAL) module at EM shower maximum over the energy range 25 GeV 150 GeV**
Perez-Lara C., Wetzel J., Akgun U., Anderson T., Barbera T., Blend D., Cankoçak K., Cerci S., Chigurupati N., Cox B., et al.
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, vol.1068, 2024 (SCI-Expanded)
3. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ in Proton-Proton Collisions at $\sqrt{s}=13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, vol.133, no.16, pp.161805, 2024 (SCI-Expanded)
4. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets in pp Collisions at $\sqrt{s}=13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, vol.133, no.14, pp.142301, 2024 (SCI-Expanded)
5. **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of τ leptons in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.857, 2024 (SCI-Expanded)
6. **Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at $s = 13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.10, 2024 (SCI-Expanded)
7. **K_{SO} and $\Lambda(\Lambda^-)$ two-particle femtoscopic correlations in PbPb collisions at $s_{\text{NN}}=5.02\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.857, 2024 (SCI-Expanded)
8. **Observation of the $\Lambda b \rightarrow J/\psi \Xi^- K^+$ decay**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.
European Physical Journal C, vol.84, no.10, 2024 (SCI-Expanded)
9. **Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of Instrumentation, vol.19, no.9, 2024 (SCI-Expanded)
10. **Performance of CMS muon reconstruction from proton-proton to heavy ion collisions**

- Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Journal of Instrumentation, vol.19, no.9, 2024 (SCI-Expanded)
- 11. Search for a resonance decaying to a W boson and a photon in proton-proton collisions at $s = 13$ TeV using leptonic W boson decays**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Journal of High Energy Physics, vol.2024, no.9, 2024 (SCI-Expanded)
- 12. Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Physical Review Letters, vol.133, no.7, 2024 (SCI-Expanded)
- 13. Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $s=13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 European Physical Journal C, vol.84, no.8, 2024 (SCI-Expanded)
- 14. Evidence for tWZ production in proton-proton collisions at $s=13$ TeV in multilepton final states**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.855, 2024 (SCI-Expanded)
- 15. Search for new physics in high-mass diphoton events from proton-proton collisions at $s = 13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Journal of High Energy Physics, vol.2024, no.8, 2024 (SCI-Expanded)
- 16. Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at $s=13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 European Physical Journal C, vol.84, no.8, 2024 (SCI-Expanded)
- 17. Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Physical Review D, vol.110, no.3, 2024 (SCI-Expanded)
- 18. Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb Collisions at Formula Presented**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
 Physical Review Letters, vol.133, no.2, 2024 (SCI-Expanded)
- 19. Search for Narrow Trijet Resonances in Proton-Proton Collisions at Formula Presented**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
 Physical Review Letters, vol.133, no.1, 2024 (SCI-Expanded)
- 20. Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- 21. Search for dark QCD with emerging jets in proton-proton collisions at $s = 13$ TeV**

- Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Journal of High Energy Physics, vol.2024, no.7, 2024 (SCI-Expanded)
- 22. Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the LHC**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Reports on Progress in Physics, vol.87, no.7, 2024 (SCI-Expanded)
- 23. Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark ffffff pair in multilepton events at $\sqrt{s}=13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
 Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- 24. Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- 25. Search for ZZ and ZH production in the bb⁻bb⁻ final state using proton-proton collisions at s=13TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 European Physical Journal C, vol.84, no.7, 2024 (SCI-Expanded)
- 26. Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
 Physical Review D, vol.110, no.1, 2024 (SCI-Expanded)
- 27. Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7$ and 8 TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Physical Review Letters, vol.132, no.26, 2024 (SCI-Expanded)
- 28. Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Physical Review Letters, vol.132, no.24, 2024 (SCI-Expanded)
- 29. Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at Formula Presented**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
 Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- 30. Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at Formula Presented**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
- 31. Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

- PHYSICAL REVIEW D, vol.109, no.11, 2024 (SCI-Expanded)
32. **Observation of the $J/\psi \rightarrow \mu^+ \mu^- \mu^+ \mu^- \mu^+ \mu^-$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 PHYSICAL REVIEW D, vol.109, no.11, 2024 (SCI-Expanded)
33. **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
 Physical Review D, vol.109, no.11, 2024 (SCI-Expanded)
34. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 PHYSICAL REVIEW D, vol.109, no.11, 2024 (SCI-Expanded)
35. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s = 13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.853, 2024 (SCI-Expanded)
36. **Measurement of the primary Lund jet plane density in proton-proton collisions at $s = 13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
 Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
37. **Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at $s = 13.6$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
 Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
38. **Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $s = 13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
 Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
39. **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at $(\sqrt{s})_{\text{NNLO}} = 13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
 Journal of High Energy Physics, vol.2024, no.5, 2024 (SCI-Expanded)
40. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s = 13$ TeV**
 Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.852, 2024 (SCI-Expanded)
41. **Development of the CMS detector for the CERN LHC Run 3**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
 Journal of Instrumentation, vol.19, no.5, 2024 (SCI-Expanded)
42. **Measurement of simplified template cross sections of the Higgs boson produced in association with w or z bosons in the $Z \rightarrow ee$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.

- Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review D, vol.109, no.9, 2024 (SCI-Expanded)
- 43. Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the $\mu\mu bb$ and $\tau\tau bb$ final states**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
European Physical Journal C, vol.84, no.5, 2024 (SCI-Expanded)
- 44. Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
PHYSICAL REVIEW D, vol.109, no.7, 2024 (SCI-Expanded)
- 45. Timing performance of the CMS High Granularity Calorimeter prototype**
Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgün B., Khan F., Alhusseini M., Alison J., Alpana A., et al.
Journal of Instrumentation, vol.19, no.4, 2024 (SCI-Expanded)
- 46. Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review D, vol.109, no.7, 2024 (SCI-Expanded)
- 47. Observation of $WW\gamma$ Production and Search for $H\gamma$ Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
PHYSICAL REVIEW LETTERS, vol.132, no.12, 2024 (SCI-Expanded)
- 48. New Structures in the $\langle i \rangle J/\psi j/\psi \langle /i \rangle$ Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
PHYSICAL REVIEW LETTERS, vol.132, no.11, 2024 (SCI-Expanded)
- 49. Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2024, no.3, 2024 (SCI-Expanded)
- 50. Measurements of azimuthal anisotropy of nonprompt D0 mesons in PbPb collisions at $s_{NN}=5.02$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)
- 51. Search for dark matter particles in $W^{+}W^{-}$ events with transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2024, no.3, 2024 (SCI-Expanded)
- 52. Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)
- 53. Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $p=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M.,

- Escalante Del Valle A., Hussain P., et al.
 PHYSICAL REVIEW LETTERS, vol.132, no.6, pp.61801, 2024 (SCI-Expanded)
54. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV**
 Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
 Physical Review C, vol.109, no.2, 2024 (SCI-Expanded)
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 $\langle mml:msup\rangle l+ \langle /mml:msup\rangle$
 $\langle mml:msup\rangle l- \langle /mml:msup\rangle bb \langle mml:mo stretchy="true">\rangle \langle overbar \rangle \langle /mml:mover \rangle$ process in pp

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Academic and Administrative Experience

2014 - 2016	Head of Department	İstanbul Üniversitesi, Faculty of Science, Fizik
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Courses

İleri Parçacık Fiziği I, Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017
İleri Parçacık Fiziği II, Doctorate, 2018 - 2019, 2017 - 2018
General Physics, Undergraduate, 2016 - 2017
Temel Tanecikler II, Undergraduate, 2016 - 2017
Bilgisayar Programlama I, Undergraduate, 2016 - 2017
İleri Parçacık Fiziği II, Doctorate, 2016 - 2017
Elementary Particles, Undergraduate, 2014 - 2015
İş Sağlığı ve Güvenliği, Undergraduate, 2014 - 2015
Bilgisayar Programlama I, Undergraduate, 2013 - 2014
Elektrodinamik Teori, Postgraduate, 2013 - 2014

Advising Theses

ÖZKORUCUKLU S., Plastik sintilatörler ile radyasyon ölçümü ve geant ile benzetim çalışmaları, Postgraduate, B.Kaynak(Student), 2018
ÖZKORUCUKLU S., Bes-mi deneyinde j/ψ bozunum kanalının analizi ile rezonansların araştırılması, Doctorate, O.Bağış(Student), 2017
ÖZKORUCUKLU S., Türk Hızlandırıcı Merkezi TARLA tesisi radyasyon güvenlik sistemi, Doctorate, K.Kayaalp(Student), 2016
ÖZKORUCUKLU S., Süper iletken parçacık hızlandırıcı tesislerinde düşük seviyeli radyo frekansı sistemlerinin fiziği ve tasarıımı, Postgraduate, A.Gürol(Student), 2014
ÖZKORUCUKLU S., Türk hızlandırıcı merkezi serbest elektron lazeri tesisi için undulatör ve rezonatör optimizasyonu, Doctorate, H.Tugay(Student), 2014
ÖZKORUCUKLU S., Türk hızlandırıcı merkezi (THM) serbest elektron lazeri için elektron demet hattı tasarımı ve demet parametrelerinin belirlenmesi, Postgraduate, M.Şekerci(Student), 2013
ÖZKORUCUKLU S., Türk Hızlandırıcı Merkezi Serbest Elektron Lazeri için Elektron Demet Diagnostik Sistemi Ön Çalışması, Postgraduate, S.Ceylan(Student), 2011
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ÖZKORUCUKLU S., Silikon Detektörlerde Benzetim, Modelleme ve Analiz Süreçleri, Doctorate, T.Özdemir(Student), 2011
ÖZKORUCUKLU S., Sinir Dokusu Modeli Analizinde Gerçekçi Model ve Dışsal Manyetik Alandan Etkilenme Mekanizmasının Analizi, Doctorate, Ö.Coşkun(Student), 2009
ÖZKORUCUKLU S., Isparta İli'nde Radon Yoğunluğunun Ölçülmesi ve Haritalandırılması, Postgraduate, H.Akyıldırım(Student), 2006
ÖZKORUCUKLU S., Serbest Elektron Lazeri Parametrelerinin Belirlenmesi, Postgraduate, S.Yiğit(Student), 2006
ÖZKORUCUKLU S., Taramalı Tünelleme Elektron Mikroskop Yapımı ve Temel Bilimlere Uygulamaları, Postgraduate, Ç.Çırak(Student), 2005

Metrics

Publication: 817

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Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Electronic and magnetic devices, microelectronics, Nuclear physics, Experimental Methods of Particle and Nuclear Physics, Radioactive decay and in-beam spectroscopy, Natural Sciences

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