

Lect. PhD GÖKHAN HALİMOĞLU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: MIN-0363-2025

ScopusID: 57205887818

Yoksis Researcher ID: 424048

Education

Doctorate, Istanbul University, Institute Of Graduate Studies In Sciences, Fen Fakültesi Bölümü, Turkey 2018 - 2025

Postgraduate, Istanbul University, Institute Of Graduate Studies In Sciences, Turkey 2016 - 2018

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 2011 - 2016

Foreign Languages

English

Dissertations

Postgraduate, Geleceğin dairesel çarpıştırıcısında 100 TeV'de lepton + jetlerin ölçülmesi, Istanbul University, Institute Of Graduate Studies In Sciences, 2018

Research Areas

Physics, Physics, High Energy Physics, Experimental High Energy Physics Studies, Particle Accelerators, Particle Detectors and Calorimeters, Physics Analysis and Simulation Studies

Academic Positions

Lecturer PhD, Istanbul Kultur University, Meslek Yüksekokulu, Alternatif Enerji Kaynakları Teknolojisi, 2025 - Continues

Academic and Administrative Experience

Program Coordinator, Istanbul Kultur University, Meslek Yüksekokulu, Alternatif Enerji Kaynakları Teknolojisi, 2025 - 2028

Courses

Associate Degree

Açık Kaynak İşletim Sistemleri, Associate Degree, 2024 - 2025

Genel Matematik II, Associate Degree, 2024 - 2025

Makine Öğrenimi, Associate Degree, 2024 - 2025

Genel Matematik I, Associate Degree, 2024 - 2025

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Improv intervention for Obsessive-Compulsive Symptoms: A pilot study**
Kozak E., HALİMOĞLU G., Kavakci O.
EUROPEAN JOURNAL OF PSYCHOLOGY OPEN, pp.251-252, 2023 (SSCI)
- II. **Production of $K^*(892)^0$ and $\phi(1020)$ in pp and Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
PHYSICAL REVIEW C, vol.106, no.3, 2022 (SCI-Expanded)
- III. **Study of very forward energy and its correlation with particle production at midrapidity in pp and p-Pb collisions at the LHC**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.8, 2022 (SCI-Expanded)
- IV. **Hypertriton Production in p-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.
PHYSICAL REVIEW LETTERS, vol.128, no.25, 2022 (SCI-Expanded)
- V. **Investigating the role of strangeness in baryon-antibaryon annihilation at the LHC**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
PHYSICS LETTERS B, vol.829, 2022 (SCI-Expanded)
- VI. **Inclusive, prompt and non-prompt J/ψ production at midrapidity in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.6, 2022 (SCI-Expanded)
- VII. **Direct observation of the dead-cone effect in quantum chromodynamics**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
NATURE, vol.605, no.7910, pp.440-446, 2022 (SCI-Expanded)
- VIII. **Measurement of $K^*(892)^\pm$ production in inelastic pp collisions at the LHC**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
PHYSICS LETTERS B, vol.828, 2022 (SCI-Expanded)
- IX. **Measurements of the groomed and ungroomed jet angularities in pp collisions at $\sqrt{s}=5.02$ TeV**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.5, 2022 (SCI-Expanded)
- X. **Polarization of Λ and (Λ) over-bar Hyperons along the Beam Direction in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.

al.

PHYSICAL REVIEW LETTERS, vol.128, no.17, 2022 (SCI-Expanded)

- XI. **Measurement of prompt D_s^+ -meson production and azimuthal anisotropy in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
PHYSICS LETTERS B, vol.827, 2022 (SCI-Expanded)
- XII. **Investigating charm production and fragmentation via azimuthal correlations of prompt D mesons with charged particles in pp collisions at $\sqrt{s}=13$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.4, 2022 (SCI-Expanded)
- XIII. **Measurement of the Groomed Jet Radius and Momentum Splitting Fraction in pp and Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.
PHYSICAL REVIEW LETTERS, vol.128, no.10, 2022 (SCI-Expanded)
- XIV. **Prompt and non-prompt J/ψ production cross sections at midrapidity in proton-proton collisions at $\sqrt{s}=5.02$ and 13 TeV**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.3, 2022 (SCI-Expanded)
- XV. **Measurement of Prompt D^0 , Λ_c^+ , and $\Sigma_c^{0,++}$ (2455) Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
PHYSICAL REVIEW LETTERS, vol.128, no.1, 2022 (SCI-Expanded)
- XVI. **Charm-quark fragmentation fractions and production cross section at mid rapidity in pp collisions at the LHC**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
PHYSICAL REVIEW D, vol.105, no.1, 2022 (SCI-Expanded)
- XVII. **Production of light (anti)nuclei in pp collisions at $\sqrt{s}=13$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.1, 2022 (SCI-Expanded)
- XVIII. **Measurement of the Cross Sections of Ξ_c^0 and Ξ_c^+ Baryons and of the Branching-Fraction Ratio $BRO(\Xi_c^0 \rightarrow \Xi^- e^+ \nu_e)/BR(\Xi_c^0 \rightarrow \Xi^- \pi^+)$ in pp Collisions at $\sqrt{s}=13$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
PHYSICAL REVIEW LETTERS, vol.127, no.27, 2021 (SCI-Expanded)
- XIX. **Inclusive J/ψ production at midrapidity in pp collisions at $\sqrt{s}=13$ TeV**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.81, no.12, 2021 (SCI-Expanded)
- XX. **Kaon-proton strong interaction at low relative momentum via femtoscopy in Pb-Pb collisions at the LHC**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.

PHYSICS LETTERS B, vol.822, 2021 (SCI-Expanded)

- XXI. **Charged-particle multiplicity fluctuations in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.81, no.11, 2021 (SCI-Expanded)
- XXII. **Experimental Evidence for an Attractive p - ϕ Interaction**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
PHYSICAL REVIEW LETTERS, vol.127, no.17, 2021 (SCI-Expanded)
- XXIII. **Anisotropic flow of identified hadrons in Xe-Xe collisions at $\sqrt{s_{NN}}=5.44$ TeV**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.10, 2021 (SCI-Expanded)
- XXIV. **First measurements of N -subjettiness in central Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.10, 2021 (SCI-Expanded)
- XXV. **K_S^0 - and (anti-) Λ -hadron correlations in pp collisions at $\sqrt{s}=13$ TeV**
Acharya S., Adamova D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Ahuja I., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.81, no.10, 2021 (SCI-Expanded)
- XXVI. **Measurement of the production cross section of prompt Ξ_c^0 baryons at midrapidity in pp collisions at $\sqrt{s}=5.02$ TeV**
Acharya S., Adamova D., Adler A., Adolfsson J., Aglieri Rinella G., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.10, 2021 (SCI-Expanded)
- XXVII. **Auxiliary differential diagnosis of schizophrenia and phases of bipolar disorder based on the blood serum Raman spectra**
ÖĞRÜÇ İLDİZ G., BAYARI S., Aksoy U. M., YORGUNER N., Bulut H., Yilmaz S. S., Halimoglu G., Kabuk H. N., YAVUZ DOĞAN G., Fausto R.
JOURNAL OF RAMAN SPECTROSCOPY, vol.51, no.11, pp.2233-2244, 2020 (SCI-Expanded)
- XXVIII. **A comparative study of the yellow dent and purple flint maize kernel components by Raman spectroscopy and chemometrics**
ÖĞRÜÇ İLDİZ G., Kabuk H. N., Kaplan E. S., Halimoglu G., Fausto R.
JOURNAL OF MOLECULAR STRUCTURE, vol.1184, pp.246-253, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **STUDY OF W+JET CROSS-SECTIONS AT NEXT-TO-LEADING ORDER AT FUTURE CIRCULAR COLLIDER AT $\sqrt{s}=100$ TEV**
Halimoglu G., Kartal S.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.14, no.1, pp.481-493, 2025 (Peer-Reviewed Journal)
- II. **Raman Spectra of Blood Serum as Holistic Biomarker for Differential Auxiliary Diagnoses of Attention Deficit and Hyperactivity Disorder (ADHD) in Adults**
Yavuz Doğan G., Halimoglu G., Kaplanoğlu D., Aksoy U. M., Kandeger A., Yavuz E., Kartal S., Fausto R., İldiz G. O.
PROCEEDINGS (MDPI), vol.2, pp.53-62, 2024 (Peer-Reviewed Journal)
- III. **Improv Intervention for Obsessive-Compulsive Symptoms: A Pilot Study from Turkey**
HALİMOĞLU G., KAVAKCI Ö., KOZAK E. D.

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Extending the ALICE strong-interaction studies to nuclei: measurement of proton-deuteron correlations in pp collisions at $\sqrt{s} = 13$ TeV**
Acharya S., Adamová D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S., Ahuja I., et al.
2021 European Physical Society Conference on High Energy Physics, EPS-HEP 2021, Virtual, Online, Germany, 26 - 30 July 2021, vol.398, (Full Text)
- II. **Antihelium-3 fluxes near Earth using data-driven estimates for annihilation cross section**
Acharya S., Adamová D., Adler A., Aglieri Rinella G., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S., Ahuja I., et al.
37th International Cosmic Ray Conference, ICRC 2021, Virtual, Berlin, Germany, 12 - 23 July 2021, vol.395, (Full Text)
- III. **Extending the ALICE strong-interaction studies to nuclei: measurement of proton-deuteron correlations in pp collisions at $\sqrt{s} = 13$ TeV**
Singh B., Acharya S., Adamová D., Adler A., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S., et al.
2021 European Physical Society Conference on High Energy Physics, EPS-HEP 2021, Virtual, Online, 26 - 30 July 2021, vol.398, (Full Text)
- IV. **Vibrational Spectroscopy as a Tool to Diagnose Psychiatric and Neurodevelopmental Disorders, Through Chemometrics Analysis of Spectral Data of Blood Plasma Samples**
ÖĞRÜÇ İLDİZ G., Rui F., BAYARI S., ÇELİK Ö., ATAK Ç., Kaygisiz E., Kabuk H. N., AYAN A., MERİÇ S., YAVUZ G., et al.
EastWest Chemistry Conference (EWCC), Palermo, Italy, 13 - 15 November 2019, (Summary Text)

Funded Projects

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Atmosferik Basınç Soğuk Plazmanın Levreğin (Dicentrarchus Labrax, Linnaeus, 1758) Kalitesine Etkisi, 2020 - 2023

TUBITAK Project, 1002 - Quick Support Program, Erişkinlerde Dikkat Eksikliği/Hiperaktivite Bozukluğunun Ayrıştırılmasında Kullanılacak Olan Biyo-İşaretlerin Raman Spektroskopik ve Kemometrik Analiz Yöntemleriyle Belirlenmesi, 2021 - 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Finding biomarkers in order to classify and discriminate Schizophrenia and Bipolar disorders and their subgroups using chemometrics and vibrational spectroscopy, 2017 - 2020

Metrics

Publication: 36

Citation (WoS): 632

Citation (Scopus): 716

H-Index (WoS): 15

H-Index (Scopus): 16