

Prof. Ekrem AYDINER



Personal Information

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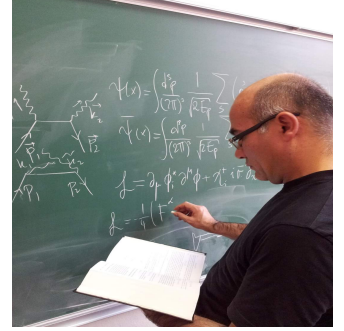
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Address: İstanbul Üniversitesi Fen Fakültesi Fizik Bölümü Vezneciler İstanbul



International Researcher IDs

ScholarID: WqQo9wEAAA

ORCID: 0000-0002-0385-9916

Publons / Web Of Science ResearcherID: D-6193-2017

ScopusID: 6507286651

Yoksis Researcher ID: 175747

Education Information

Doctorate, Cukurova University, Fen Edebiyat Fakültesi, Fizik, Turkey 1996 - 2003

Postgraduate, Cukurova University, Fen Edebiyat Fakültesi, Fizik Bölümü, Turkey 1994 - 1996

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1986 - 1993

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Spin Camlarda Spin Durulma Süreçlerinin Modellenmesi, Cukurova University, Fen Fakültesi, Fizik Bölümü, 2003

Postgraduate, Spin Camların Fiziksel Özellikleri, Cukurova University, Fen Fakültesi, Fizik Bölümü, 1996

Research Areas

Psychiatry, Philosophy, History of Science, Simulation and Modelling, Complexity Theory, Biophysics, Neurobiophysics, Physics, Stars, Interdisciplinary Physics and Related Science and Technology Areas, Heat Transfer, Quantum Mechanics, Fields Theory and Relativity, Basic Particles and Areas, General Theory of Particles and Fields, Special theories and interaction models, particle systematics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Equations of State, Phase Equilibria, and Phase Transitions, Thermal Properties of Condensed Matter, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Magnetic Properties and Materials, Magnetic Resonances and Relaxation, Natural Sciences

Academic Titles / Tasks

Professor, Princeton University, Fizik Bölümü, 2025 - Continues
Professor, Koc University, Fen Fakültesi, Fizik Bölümü, 2024 - Continues
Professor, Istanbul University, Faculty of Science, Department of Physics, 2014 - Continues
Professor, Humboldt-Universitaet zu Berlin, Insitute of Physik, 2022 - 2022
Professor, Universitaet Potsdam, Insitute of Physik / Theoretical Physics, 2022 - 2022
Professor, Istanbul Yeni Yuzyil University, Mimarlık Ve Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği, 2018 - 2018
Other, Universitaet Potsdam, Theoretical Physics, Theoretical Physics, 2018 - 2018
Other, Universitaet Potsdam, Theoretical Physics, Theoretical Physics, 2016 - 2016
Other, Middlesex University, Computing Sciences, Communication , 2014 - 2014
Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 2009 - 2014
Other, The University of Leeds, Faculty Of Mathematics And Physical Sciences, School Of Physics And Astronomy, 2011 - 2011
Associate Professor, Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü, 2008 - 2009
Assistant Professor, Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü, 2003 - 2008
Research Assistant, Cukurova University, Fen Fakültesi, Fizik Bölümü, 1994 - 2003
Research Assistant, Bogazici University, Feza Gürsey Enstitüsü, Temel Bilimler, 1998 - 1998
Student, Ankara University, Faculty Of Science, Department Of Physics, 1986 - 1993

Academic and Administrative Experience

Head of Department, Istanbul University, Faculty Of Science, Department Of Physics, 2017 - 2020
Deputy Head of Department, Dokuz Eylul University, Faculty Of Science, Department Of Physics, 2004 - 2009
Head of Department, Dokuz Eylul University, Faculty Of Science, Department Of Physics, 2003 - 2009

Courses

Fizikte Modelleme ve Simülasyon, Undergraduate, 2021 - 2022
Kaos Teorisi, Postgraduate, 2018 - 2019
Kuantum Alanlar Teorisi, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014
Sonlu Sıcaklık Kuantum Alan Teorisi, Doctorate, 2018 - 2019, 2013 - 2014
Sinyal ve Sistemler, Undergraduate, 2018 - 2019
Kaos Teorisi, Postgraduate, 2018 - 2019
Kuantum Hesapama Teorisi, Postgraduate, 2017 - 2018
Bilim Tarihi ve Felsefesi, Undergraduate, 2017 - 2018
Termodinamik ve İstatistik Mekanik I, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Optoelektronik ve Lazerler, Undergraduate, 2018 - 2019
İleri kuantum mekaniği, Postgraduate, 2017 - 2018
Sinyal ve Sistemler, Undergraduate, 2017 - 2018
Termodinamik ve İstatistik Mekanik II, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Termodinamik ve İstatistik Mekaniği I, Undergraduate, 2015 - 2016
Kuantum Kaos: Teori ve Uygulamalar, Postgraduate, 2015 - 2016, 2013 - 2014
Termodinamik ve İstatistik Mekaniği II, Undergraduate, 2015 - 2016
Kuantum Hesaplama Teorisine Giriş, Postgraduate, 2014 - 2015
Kuantum Kaos, Postgraduate, 2014 - 2015
Karşılaştırmalı F90 ve C++, Doctorate, 2015 - 2016
Sonlu Sıcaklık Kuantum Alan Teorisi II, Doctorate, 2014 - 2015
Fizikte İleri Konular, Undergraduate, 2014 - 2015
Sonlu Sıcaklık Kuantum Alan Teorisi I, Doctorate, 2014 - 2015

Kuantum Kaos: Teori ve Uygulamaları, Postgraduate, 2013 - 2014
Classical Electrodynamics II, Doctorate, 2013 - 2014, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008
İstatistik Fizik II, Undergraduate, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2008 - 2009
Kuantum Alanlar Teorisi, Postgraduate, 2013 - 2014
Termodinamik ve İstatistik Mekanik Lab., Undergraduate, 2013 - 2014
Kuantum Hesaplama Teorisine Giriş, Postgraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
Teorik Fizikte Bilgisayarlı Hesaplama, Undergraduate, 2012 - 2013, 2011 - 2012, 2009 - 2010
Termodinamik ve İstatistik Mekanik II, Undergraduate, 2013 - 2014
Termodinamik ve İstatistik Mekanik I, Undergraduate, 2013 - 2014
Sonlu Sıcaklık Kuantum Alanlar Teorisi, Doctorate, 2013 - 2014
Fizikte İleri Konular, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
Termodinamik ve İstatistik Mekanik Lab, Undergraduate, 2013 - 2014
Kuantum Kaos: Teori ve Uygulamaları, Postgraduate, 2012 - 2013, 2011 - 2012, 2009 - 2010
Termodinamik ve İstatistik Mekanik II, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
Teorik Fizikte Bilgisayarlı Hesaplama, Undergraduate, 2010 - 2011
Seminer, Postgraduate, 2010 - 2011
Classical Electrodynamics I, Doctorate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008
Seminer, Postgraduate, 2009 - 2010
Elektromagnetik Teori II, Undergraduate, 2008 - 2009, 2007 - 2008
Computational Physics I, Doctorate, 2008 - 2009, 2007 - 2008, 2006 - 2007
Bilgisayar Prog. II (Fortran 90), Undergraduate, 2008 - 2009, 2005 - 2006, 2004 - 2005
Elektromagnetik Teori I, Undergraduate, 2008 - 2009, 2007 - 2008
Nonlinear dynamics and chaos theory I, Doctorate, 2008 - 2009, 2004 - 2005
Computational Physics II, Doctorate, 2008 - 2009, 2006 - 2007
İstatistik Fizik I, Undergraduate, 2008 - 2009
Statistical Mechanics I, Doctorate, 2008 - 2009
Nonlinear dynamics and chaos theory II, Doctorate, 2008 - 2009, 2004 - 2005
Statistical Mechanics II, Doctorate, 2008 - 2009
Fizikte Matematiksel Yöntemler II, Undergraduate, 2006 - 2007, 2004 - 2005
Akışkanlar Mekaniği, Undergraduate, 2006 - 2007
Fizikte Matematiksel Yöntemler II, Undergraduate, 2005 - 2006, 2003 - 2004
Fizikte Matematiksel Yöntemler I, Undergraduate, 2006 - 2007
Mathematical Physics II, Doctorate, 2006 - 2007, 2004 - 2005
Mathematical Physics I, Doctorate, 2005 - 2006, 2004 - 2005
Fizikte Matematiksel Yöntemler I, Undergraduate, 2005 - 2006, 2004 - 2005, 2003 - 2004
Bilgisayar Prog. II (Fortran 90), Undergraduate, 2004 - 2005
Fizik I (Mekanik), Undergraduate, 2003 - 2004
Fizik II (Elektrik), Undergraduate, 2003 - 2004
Bilgisayar Prog. II (Fortran 90), Undergraduate, 2003 - 2004
Bilgisayar Prog. III (C++), Undergraduate, 2003 - 2004
Stochastic processes in physics I, Doctorate, 2004 - 2005
Fizikte Matematiksel Uygulamalar I, Doctorate, 2003 - 2004
Fizikte Matematiksel Uygulamalar II, Doctorate, 2003 - 2004
Bilgisayar Programlama (Fortran 90), Undergraduate, 2003 - 2004
Computational Physics, Doctorate, 2003 - 2004
Fizik (Mekanik) I Uygulama, Undergraduate, 1994 - 1995

Advising Theses

Aydiner E., Uzay-zaman geometrileri, Postgraduate, A.Candan(Student), Continues

Aydiner E., FLRW uzay-zamanda nötrino Osilasyonu, Doctorate, H.Abdolalizadeh(Student), Continues
Aydiner E., Karanlık madde ve karanlık enerji arasındaki kaotik etkileşimlerin incelenmesi, Postgraduate,
S.Önder(Student), 2024
Aydiner E., Karanlık madde ve karanlık enerji etkileşimlerinin incelenmesi, Postgraduate, H.Başer(Student), 2024
Aydiner E., Karanlık madde ve karanlık enerji etkileşim dinamiğinin kaos analizi, Postgraduate, Ö.Kartal(Student), 2024
Aydiner E., Covid-19 dinamiğinin modellenmesi: Kaos analizi ve dağılım fonksiyonunun incelenmesi, Doctorate,
E.Yılmaz(Student), 2024
Aydiner E., Postgraduate, Y.Alsham(Student), 2022
Aydiner E., Yüksek Boyutlu Lotka-Volterra Tipindeki Bağlaşık Denklemlerde Kaos Analizi, Postgraduate,
M.Hajbo(Student), 2022
Aydiner E., Karanlık madde aday aksiyon parçacıklar, Postgraduate, A.Akberov(Student), 2022
Aydiner E., Investigation of Cosmological Phenomena by Using Generalized Uncertainty Principle, Doctorate,
Ö.Ökcü(Student), 2021
Aydiner E., Bunalmalı Spin-Örgü Sisteminin Termodinamiği, Doctorate, D.Han(Student), 2021
Aydiner E., Investigation of the Particle Creation Effects in the Higher Dimensional Friedmann-Robertson-Walker Models,
Doctorate, Ö.Sevinç(Student), 2019
Aydiner E., Etkileşimli modeller kullanarak evren dinamiğinin incelenmesi, Doctorate, D.Gemici(Student), 2019
Aydiner E., Döviz Kurlarının Zaman Serisi Analizleri, Postgraduate, E.Yılmaz(Student), 2017
Aydiner E., Karadeliklerin Termodinamiği, Postgraduate, Ö.Ökcü(Student), 2016
Aydiner E., Farklı Karanlık enerji modelleri için evren dinamiğinin incelenmesi, Postgraduate, N.Bostan(Student), 2015
Aydiner E., Kuantum Spin Sistemlerinde Kuantum Dolanıklık, Postgraduate, S.Deniz(Student), 2013
Aydiner E., Bose-Einstein Yoğuşması, Doctorate, N.Üzar(Student), 2012
Aydiner E., Magnetik sistemlerin Monte Carlo Simülasyonları, Doctorate, E.Kış(Student), 2012
Aydiner E., Kuantum yürüyüş ve uygulamaları, Doctorate, M.Gönüloğlu(Student), 2011
Aydiner E., Tsallis entropik eşitsizliği, Postgraduate, S.Uslu(Student), 2009
Aydiner E., Düşük boyutlu spin sistemlerinde kuantum dolanıklık, Doctorate, C.Akyüz(Student), 2008
Aydiner E., Kuantum bilgi entropisi, Postgraduate, C.Orta(Student), 2006
Aydiner E., Yerkürenin magnetik kutup salınımının modellenmesi, Postgraduate, M.Altürk(Student), 2006
Aydiner E., Sosyal ve politik olayların modellenmesi, Postgraduate, M.Gönüloğlu(Student), 2006
Aydiner E., Sonlu fark yöntemi ve uygulamaları, Postgraduate, Ş.Hayran(Student), 2005

Jury Memberships

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Akdeniz Üniversitesi,
October, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Sabancı
Üniversitesi, September, 2023
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Hitit
Üniversitesi, August, 2023
Doctorate, Doctorate, İstanbul Teknik Üniversitesi, February, 2023
Doctoral Examination, Doctoral Examination, Boğaziçi Üniversitesi, February, 2023
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, February, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship,
Uluslararası Final Üniversitesi, November, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İzmir
Yüksek Teknoloji Enstitüsü, September, 2022
Doctoral Examination, Doctoral Examination, Koç Üniversitesi, February, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021
Doctorate, Doctorate, uluslararası islam üniversitesi, September, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Uluslararası Final Üniversitesi, September, 2020
Doctorate, Doctorate, İstanbul Üniversitesi, September, 2020
Post Graduate, Post Graduate, Hacettepe Üniversitesi, July, 2020
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Muğla Sıtkı Koçman Üniversitesi, January, 2020
Doctorate, Doctorate, Koç Üniversitesi, January, 2020
Doctorate, Doctorate, Quaid-i Azam Medical College, July, 2019
Doctorate, Doctorate, İstanbul Üniversitesi, July, 2019
Doctorate, Doctorate, İstanbul Üniversitesi, May, 2019
Doctorate, Doctorate, Quaid-i Azam Medical College, March, 2019
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Mersin Üniversitesi, February, 2019
Doctorate, Savaş Birol Tez Doktora Tez Savunması İstanbul Üni Fizik, Savaş Birol Tez Doktora Tez Savunması İstanbul Üni Fizik, August, 2018
Doctoral Examination, Doktora Yeterlilik, Nur c Koç Üniversitesi, November, 2017
Associate Professor Exam, Dr. Sezen Sekmen, Doçentlik Sınavı, Dr. Sezen Sekmen, Doçentlik Sınavı, October, 2017
Associate Professor Exam, Associate Professor Exam, İstanbul Teknik Üniversitesi, October, 2017
Post Graduate, İrem Topal Yüksek Lisans İTÜ Fizik Mühendisliği, İrem Topal Yüksek Lisans İTÜ Fizik Mühendisliği, August, 2017
Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2017
Doctorate, Jüri, Onur Buğra Kolcu Doktora Tez Savunması İstanbul Üni Fizik, May, 2017
Doctoral Examination, TrakyaÜ, Trakya Üni Fizik Böl., March, 2017
Associate Professor Exam, UAK Doçentlik Sınavı, YOK-ÜAK, February, 2017
Doctoral Examination, Akdeniz Ü Fizik Bölümü, AKdeniz Ü. Fizik Bölümü, January, 2017
Doctorate, Doktora Tezi, istanbul Üni, October, 2016
Associate Professor Exam, Sınav, YOK, December, 2015
Associate Professor Exam, Sınav, YOK, December, 2015
Associate Professor Exam, Doçentlik Sınav Jürisi, YÖK, November, 2015
Associate Professor Exam, Doçentlik Dınav Jürisi, YÖK, November, 2015
Associate Professor Exam, Jüri, YÖK, October, 2015
Associate Professor Exam, doçentlik sınavı, YÖK, October, 2015
Associate Professor Exam, Jüri, YÖK, October, 2015
Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi, June, 2015
Associate Professor Exam, Doçent Jürisi, YOK, May, 2015
Competition, Liselerarası Proje Yarışması, Okyanus Koleji, April, 2013
Doctorate, Tez Savunma Jürisi, Dokuz Eylül Üniversitesi (Yusuf Yüksel), March, 2013
Doctorate, Tez Savunma Jürisi, İstanbul Üniversitesi (Sercan Şen), March, 2013
Doctorate, Tez Savunma Sınavı, Dokuz Eylül Üniversitesi (Ebru Kış-Çam), June, 2012
Doctorate, Tez Savunma Jürisi, İstanbul Üniversitesi (Neslihan Üzar), June, 2012
Competition, Liselerarası proje yarışması, Okyanus Koleji, April, 2012
Doctorate, Tez Savunma Jürisi, Dokuz Eylül Üniversitesi (Meltem Gönülo), December, 2011
Competition, Liselerarası proje yarışması, Okyanus Koleji, May, 2011
Competition, Okyanus Fen Bilimleri Proje Yarışması , Okyanus Koleji, April, 2010
Post Graduate, Tez Savunma Jürisi, Dokuz Eylül Üniversitesi (Sibel Uslu), May, 2009
Doctorate, Tez Savunma Jürisi, Dokuz Eylül Üniversitesi (Cenk Akyüz), July, 2008
Competition, Liselerarası fen ve müh. yarışması, Dokuz Eylül Ü., May, 2007
Post Graduate, Tez Savunma Jürisi, Dokuz Eylül Üniversitesi (Cenk Orta), July, 2006
Post Graduate, Tez Savunma Jürisi, Dokuz Eylül Üniversitesi (Meltem Gönülo), June, 2006
Post Graduate, Tez Savunma Jürisi, Dokuz Eylül Üniversitesi (Mesut Altürk), June, 2006

Competition, Liselerarası fen ve müh. yarışması, Dokuz Eylül Ü., May, 2006
Competition, Liselerarası fen ve müh. yarışması, Dokuz Eylül Ü., May, 2005
Competition, Liselerarası fen ve mühendislik yarışması, Dokuz Eylül Üniversitesi, May, 2004
Post Graduate, Tez Savunma Jurisi, Dokuz Eylül Üniversitesi (Şenay Hayran), April, 2004

Taught Courses And Trainings

Aydiner E., Lise Öğrencileri için Kuantum Mekaniği, 2018 - 2018
Aydiner E., Araştırma Odaklı Monte Carlo Simülasyon Uygulamaları Eğitimi, 2015 - 2016
Aydiner E., Programcılık Eğitimi (Fortran 90 ve C++), 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Chaotic interactions between dark matter and dark energy**
Aydiner E.
arXiv, vol.1, no.1, pp.1-10, 2024 (SCI-Expanded)
- II. **Chaotic Interaction between Thermodynamic Systems**
Aydiner E.
Preprint, vol.1, no.1, pp.1-10, 2024 (SCI-Expanded)
- III. **Exponential correction to Friedmann equations**
Okcu O., AYDINER E.
GENERAL RELATIVITY AND GRAVITATION, vol.56, no.7, 2024 (SCI-Expanded)
- IV. **Chaotic and Quasi-periodic Regimes in the Covid-19 Mortality Data**
Yilmaz E., Aydiner E.
Chaos Theory and Applications, vol.1, no.1, pp.1-10, 2024 (SCI-Expanded)
- V. **Quantum entanglement between neutrino eigenstates in the presence of the subsequent phase shift of the neutrino oscillations**
Abdolalizadeh H., AYDINER E.
EPL, vol.146, no.5, 2024 (SCI-Expanded)
- VI. **Matter, Dark Matter, Dark Energy Interactions and New Physics**
Aydiner E.
SPRINGER PROCEEDINGS IN PHYSICS, vol.1, no.1, pp.1-10, 2024 (SCI-Expanded)
- VII. **Superposition and interference states in q-deformed quantum oscillator**
Alomeare H., NUTKU F., AYDINER E.
European Physical Journal D, vol.78, no.5, 2024 (SCI-Expanded)
- VIII. **Universal behavior of the Covid-19 tails: Inverse power-law distribution**
Aydiner E., Yilmaz E.
arXiv, vol.1, no.1, pp.1-10, 2024 (SCI-Expanded)
- IX. **Anomalous transport of the ion-channels**
Aydiner E.
CANADIAN JOURNAL OF PHYSICS, vol.1, no.1, pp.1-9, 2024 (SCI-Expanded)
- X. **Quantum heat engine with level degeneracy for oscillator-shaped potential well**
Evkaya Y., Ökcü Ö., Aydiner E.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.1, no.11, pp.1-11, 2023 (SCI-Expanded)
- XI. **Modified Friedmann equations from fractional entropy**
Çoker Z., Ökcü Ö., Aydiner E.
EPL, vol.143, no.5, 2023 (SCI-Expanded)
- XII. **Universal Pareto laws in agent-based exchange models: debt and varying initial-money distributions**
AYDINER E., Cherstvy A. G., Metzler R., Sokolov I. M.

- European Physical Journal B, vol.96, no.9, 2023 (SCI-Expanded)
- XIII. **Anomalous Cyclic in the Neutrino Oscillations**
Aydiner E.
SCIENTIFIC REPORTS, vol.1, no.1, pp.1-11, 2023 (SCI-Expanded)
- XIV. **The extended uncertainty principle effects on the phase transitions of Reissner-Nordström and Schwarzschild black holes**
Ökcü Ö., Aydiner E.
NUCLEAR PHYSICS B, vol.1, no.1, pp.1-11, 2022 (SCI-Expanded)
- XV. **Investigating bounds on the extended uncertainty principle metric through astrophysical tests**
Ökcü Ö., Aydiner E.
EPL, vol.138, no.3, 2022 (SCI-Expanded)
- XVI. **Complexity of HCl and H-2 molecules under q-deformed Morse potential**
NUTKU F., AYDINER E., Sen K. D.
INDIAN JOURNAL OF PHYSICS, vol.96, no.4, 2022 (SCI-Expanded)
- XVII. **Late time transition of Universe and the hybrid scale factor**
Aydiner E., Başaran-Öz I., Dereli D. T., Sarısamam M.
European Physical Journal C, vol.82, no.39, pp.1-15, 2022 (SCI-Expanded)
- XVIII. **Time-fractional kinetic equation for the non-equilibrium processes**
Aydiner E.
Scientific Reports, vol.1, no.1, pp.1-11, 2021 (SCI-Expanded)
- XIX. **Space-fractional quantum heat engine based on level degeneracy**
Aydiner E.
SCIENTIFIC REPORTS, vol.1, no.1, pp.1-8, 2021 (SCI-Expanded)
- XX. **Memory effects and KWW relaxation of the interacting magnetic nano-particles**
Aydiner E.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.572, 2021 (SCI-Expanded)
- XXI. **Observational tests of the generalized uncertainty principle: Shapiro time delay, gravitational redshift, and geodetic precession**
Okcu O., AYDINER E.
NUCLEAR PHYSICS B, vol.964, 2021 (SCI-Expanded)
- XXII. **Quantum Szilard engine for the fractional power-law potentials**
Aydiner E.
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)
- XXIII. **GUP-Corrected van der Waals Black Holes**
Okcu O., AYDINER E.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.59, no.9, pp.2839-2851, 2020 (SCI-Expanded)
- XXIV. **Repulsive Casimir Force of the Free and Harmonically Trapped Bose Gas in the Bose-Einstein Condensate Phase**
AYDINER E.
ANNALEN DER PHYSIK, vol.532, no.8, 2020 (SCI-Expanded)
- XXV. **Modified Friedmann equations from DSR-GUP**
Okcu O., Corda C., AYDINER E.
EPL, vol.129, no.5, 2020 (SCI-Expanded)
- XXVI. **Complexity study of q-deformed quantum harmonic oscillator**
Nutku F., Sen K. D., Aydiner E.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.533, 2019 (SCI-Expanded)
- XXVII. **A Simple Model for Stretched Exponential Relaxation in Three-Level Jumping Process**
Aydiner E.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.256, 2019 (SCI-Expanded)
- XXVIII. **Particle Creation in Friedmann-Robertson-Walker Universe**
Sevinç Ö., Aydiner E.

- GRAVITATION & COSMOLOGY, vol.25, pp.397-406, 2019 (SCI-Expanded)
- XXIX. **Money distribution in agent-based models with position-exchange dynamics: the Pareto paradigm revisited**
Aydiner E., Cherstvy A. G., Metzler R.
EUROPEAN PHYSICAL JOURNAL B, vol.92, 2019 (SCI-Expanded)
- XXX. **Influence of Linear Plus Quadratic Interactions Between Dark Components of the Universe on Thermodynamics**
Gemici-Deveci D., Aydiner E.
GRAVITATION & COSMOLOGY, vol.25, no.1, pp.75-81, 2019 (SCI-Expanded)
- XXXI. **Quantum heat engine model of mixed triangular spin system as a working substance**
Aydiner E., Han S. D.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.509, pp.766-776, 2018 (SCI-Expanded)
- XXXII. **Joule-Thomson expansion of Kerr-AdS black holes**
Ökcü Ö., Aydiner E.
EUROPEAN PHYSICAL JOURNAL C, vol.78, 2018 (SCI-Expanded)
- XXXIII. **Investigation of Bose-Einstein Condensates in q-Deformed Potentials with First Order Perturbation Theory**
Nutku F., Aydiner E.
COMMUNICATIONS IN THEORETICAL PHYSICS, vol.69, no.2, pp.154-158, 2018 (SCI-Expanded)
- XXXIV. **Wealth distribution, Pareto law, and stretched exponential decay of money: Computer simulations analysis of agent-based models**
Aydiner E., Cherstvy A. G., Metzler R.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.490, pp.278-288, 2018 (SCI-Expanded)
- XXXV. **Chaotic universe model**
Aydiner E.
SCIENTIFIC REPORTS, vol.8, 2018 (SCI-Expanded)
- XXXVI. **Quadratic interaction effect on the dark energy density in the universe**
Deveci D. G., Aydiner E.
CHINESE PHYSICS B, vol.26, 2017 (SCI-Expanded)
- XXXVII. **Effects of thermal fluctuations on thermodynamic behavior of Reissner-Nordström-AdS black hole**
Ökcü Ö., Aydiner E.
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- AYDINER E., Project Supported by Higher Education Institutions, Topolojik Kuantum Hesaplama Uygulamaları, 2018 - 2020
- AYDINER E., Project Supported by Higher Education Institutions, Kuantum Spin Sistemlerinin Dinamiği: XY Spin Modelleri, 2012 - 2020
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Activities in Scientific Journals

- FRONTIERS OF PHYSICS, Editor, 2022 - Continues
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- Turk J Phys, Editor, 2012 - 2020

Memberships / Tasks in Scientific Organizations

- Quantum Technologies with Ultra-Cold Atoms COST Action CA16221, Member, 2018 - Continues
- Thermodynamics in the Quantum Regime COST Action MP1209, Member, 2017 - Continues
- International Theoretical and Applied Physics (ITAP), Member, 2006 - Continues
- Türkiye Beyin Araştırmaları ve Sinirbilimleri Derneği, Member, 2000 - Continues
- Türk Fizik Derneği, Member, 2012 - 2015, Turkey

Scientific Refereeing

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PHYSICAL REVIEW E - STATISTICAL, NONLINEAR, AND SOFT MATTER PHYSICS, SCI Journal, August 2024
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Tasks In Event Organizations

Aydiner E., Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, Scientific Congress, İstanbul, Turkey, Şubat 2021
Aydiner E., Yoğun Madde Fiziği Ankara-İstanbul-İzmir Toplantısı, Scientific Congress, Turkey, Aralık 2020
Aydiner E., High Energy Physics, Astrophysics & Cosmology, Workshop Organization, Turkey, Şubat 2020
Aydiner E., İstanbul Yoğun Madde Fiziği Toplantısı, Workshop Organization, Turkey, Haziran 2019
Aydiner E., Ulubay A., Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, Workshop Organization, Turkey, Ocak 2019
Aydiner E., Ulubay A., Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, Workshop Organization, Turkey, Şubat 2018
Aydiner E., Lineer Olmayan Sistemler, Kaos Teorisi ve Uygulamaları, Science / Art Camp or Summer School Organization, Turkey, Temmuz 2009
Aydiner E., Non-extensive Statistical Mechanics, Science / Art Camp or Summer School Organization, Turkey, Temmuz 2006
Aydiner E., İzmir Fizik Günleri, Scientific Congress, Turkey, Nisan 2005

Scientific Research / Working Group Memberships

İstanbul University Theoretical Physics Research Group, İSTANBUL ÜNİVERSİTESİ, Turkey, Yok, 2010 - Continues

Metrics

Publication: 84
Citation (WoS): 726
Citation (Scopus): 726
H-Index (WoS): 15
H-Index (Scopus): 15

Congress and Symposium Activities

YEFAK-2021: Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, Moderator, İstanbul, Turkey, 2021
Ankara-İzmir-İstanbul Yoğun Madde Fiziği Toplantısı 25-26 Aralık 2020 Çevrimiçi, Session Moderator, İstanbul, Turkey, 2020
Cyprus Gravity and Cosmology Conference 2019, Attendee, Girne, Cyprus (Kktc), 2019
Quantum and Topological Thermodynamics workshop, Attendee, İstanbul, Turkey, 2019
3rd International Turkey-Iran Joint Conference on LHC Physics, Attendee, İstanbul, Turkey, 2019
İstanbul Yoğun Madde Fiziği Toplantısı 13-14 Nisan 2019 İstanbul, Attendee, İstanbul, Turkey, 2019
2. Nova Bilim ve Teknoloji Çalıştayı, Attendee, Bursa, Turkey, 2019
Karmaşık Sistemler ve Veri Bilimi Çalıştayı- Boğaziçi Üniversitesi, Attendee, İstanbul, Turkey, 2019
YEFAK-2019: Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı 2020, 3-5 Şubat 2020 İstanbul, Moderator, İstanbul, Turkey, 2019
YEFAK-2019: Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı 2019, 30-31 Ocak 2019 İstanbul, Attendee, İstanbul, Turkey, 2019
Ankara Yüksek Enerji Fiziği Günleri, 25-26 Ocak 2020 Ankara, Attendee, Ankara, Turkey, 2019
Kuantum Teknolojileri Çalıştayı, Attendee, Bolu, Turkey, 2019

Düzensiz Sistemler Çalıştayı 5-6 Ekim 2018 İstanbul, Attendee, İstanbul, Turkey, 2018
III. Yıldız Fizik Günleri, Yıldız Teknik Üniversitesi 10 Mayıs 2018 İstanbul, Attendee, İstanbul, Turkey, 2018
Karmaşık Sistemler ve Veri Bilimi Çalıştayı- Bilgi Üniversitesi 26 Mayıs 2018, Attendee, İstanbul, Turkey, 2018
YEFİST-2018 Yüksek Enerji Fiziği İstanbul Toplantısı, 27-28 Nisan 2018 Mimar Sinan GS Üni, Attendee, İstanbul, Turkey, 2018
Yoğun Madde Fiziği İzmir Toplantısı, İYTE 13 Nisan 2018 İzmir, Attendee, İzmir, Turkey, 2018
YEFAK-2018: Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı 2018, 8-9 Şubat 2018 İstanbul, Attendee, İstanbul, Turkey, 2018
Fifth Quantum Thermodynamics Conference, OXFORD UNIVERSITY, UK, Attendee, Oxford, United Kingdom, 2017
Kuantum Optiği ve Bilişim Toplantısı (KOBİT), İYTE İzmir, Attendee, İzmir, Turkey, 2017
CERN FCC Physics Workshop, Geneva, SWISS, Attendee, Genève, Switzerland, 2017
5th International Conference on Mathematical Modeling in Physical Sciences, Athen (Atina) Greece, Attendee, Athína, Greece, 2016
Balkan Fizik Kongresi, Attendee, İstanbul, Turkey, 2015
TFD-21, Attendee, Turkey, 2014
İstatistik Fizik Günleri, Attendee, Turkey, 2005
İstatistik Fizik Günleri, Attendee, Turkey, 2003
İstatistik Fizik Günleri, Attendee, Turkey, 2002
İstatistik Fizik Günleri, Attendee, Turkey, 2000
İstatistik Fizik Günleri, Attendee, İstanbul, Turkey, 1999
Türk Fizik Derneği 17. Fizik Kongresi, Attendee, Turkey, 1998
İstatistik Fizik Günleri, Attendee, Turkey, 1998
Workshop on Interface Dynamics, Attendee, Turkey, 1998
İstatistik Fizik Günleri, Attendee, Turkey, 1997
İstatistik Fizik Günleri, Attendee, Turkey, 1996

Invited Talks

A new interaction schema for the coupled thermodynamical systems (Koç Üniversitesi), Seminar, Koç Üniversitesi, Turkey, November 2024
Kaotik Evren Teorisi ve Fizikte Yeni Yasalar (İstanbul Üniversitesi), Seminar, İstanbul Üniversitesi, Turkey, November 2024
Kaotik Evren Teorisi ve Yeni Fizik (Mersin Üniversitesi), Conference, Mersin Üniversitesi, Turkey, May 2024
Fizikte Yeni Kavramlar, Tanımlar ve Yasalar (Çukurova Üniversitesi), Conference, Çukurova Üniversitesi, Turkey, May 2024
Üç Cisim Problemi (Özgen Berkol Doğan Bilim Kurgu Kütüphanesi), Conference, Özgen Berkol Doğan Bilim Kurgu Kütüphanesi, Turkey, April 2024
Karanlık Madde ve Karadelikler (Cağaloğlu Anadolu Lisesi), Conference, Cağaloğlu Anadolu Lisesi, Turkey, December 2023
Kaotik Evren Teorisi ve Fizikte Yeni Yasalar (Yıldız Teknik Üniversitesi), Conference, Yıldız Teknik Üniversitesi, Turkey, December 2023
Ben neler yapıyorum? (Q-Turkey), Conference, Mimar Sinan Güzel Sanatlar Üniversitesi, Turkey, November 2023
Kaotik Evren Teorisi ve Fizikte Yeni Yasalar (Hitit Üniversitesi), Conference, Hitit Üniversitesi, Turkey, November 2023
Kaotik Evren Teorisi (Samiha Ayverdi Anadolu Lisesi), Conference, Kaotik Evren Teorisi (Samiha Ayverdi Anadolu Lisesi), Turkey, March 2023
Evrenin Kozmik Evrimi (Numune-i Terakki - İstanbul Erkek Lisesi), Conference, Numune-i Terakki - İstanbul Erkek Lisesi, Turkey, January 2023
Gelir Dağılımının İstatistik Mekanik Modeli (Grup Semineri, Fizik Bölümü), Seminar, İstanbul Üniversitesi, Turkey, January 2023
Kaotik Evren Teorisi (Gebze Teknik Üniversitesi), Conference, Gebze Teknik Üniversitesi, Turkey, December 2022

Chaotic Universe Theory (Potsdam University), Seminar, Germany, November 2022

Kozmolojide yeni adım (Cağaloğlu Anadolu Lisesi Fizik Kulübü Semineri), Seminar, Kaotik Evren Teorisi (Kozmolojide yeni adım (Cağaloğlu Anadolu Lisesi Fizik Kulübü Semineri), Turkey, October 2022

Ben Neler Yapıyorum? (İstanbul Ü. Ekim 2022 Bölüm tercihi için gelen öğrencilere yönelik konuşma), Conference, İstanbul Üniversitesi, Turkey, September 2022

Bose-Einstein Yoğuşma Fazında İtici Casimir Kuvveti (İstanbul Yoğun madde Fiziği Toplantısı), Workshop, İstanbul Üniversitesi, Turkey, September 2022

Toward to a new physics (Opening talk in the Frontiers of Fundamental Physics), Conference, Frontiers of Fundamental Physics, Turkey, May 2022

Kaotik Evren Teorisi ve Yeni Bulgular (İstanbul Üniversitesi), Conference, İstanbul Üniversitesi, Turkey, March 2022

Evrenin Sonu (İstanbul Üniversitesi Fizik Kulübü), Conference, İstanbul Üniversitesi, Turkey, May 2021

Kozmolojinin Önemli Problemleri ve Kaotik Evren Teorisi (Selçuk Üniversitesi), Seminar, Selçuk Üniversitesi, Turkey, April 2021

Matematiksel.org, Konuk: Ekrem Aydın Link: <https://www.instagram.com/p/CH3SBBra9bi/?igshid=1w73pa6xb940m&fbclid=IwAR0uoYVifbgJFsNV4llEkDCOh8nf1MD1czwlxw1104f6RFsHqp0ueYKZp3E>, Seminar, Matematiksel, Turkey, November 2020

The emergence of the Universe and Its evolution, Workshop, Çanakkale Onsekiz Mart Üniversitesi, Turkey, April 2020

"Kompleks ve Kaotik İktisat Sürecinde Öngörülebilir Düzene Bir Örnek" 28 Nisan 2020, Yıldız Teknik Üniversitesi İktisadi ve İdari Bilimler Fakültesi, Conference, "Kompleks ve Kaotik İktisat Sürecinde Öngörülebilir Düzene Bir Örnek" 28 Nisan 2020, Yıldız Teknik Üniversitesi İktisadi ve İdari Bilimler Fakültesi, Turkey, April 2020

The emergence of the Universe and Its evolution, Yıldız Teknik Üniversitesi, Conference, Yıldız Teknik Üniversitesi, Turkey, March 2020

The emergence of the Universe and Its evolution, Seminar, Üsküdar Üniversitesi, Turkey, March 2020

Why is a new cosmology theory necessary? (Orta Doğu Teknik Üniversitesi), Workshop, Orta Doğu Teknik Üniversitesi, Turkey, February 2020

The emergence of the Universe and Its evolution, İstanbul Üniversitesi Fizik Öğrenci Çalıştayı, Workshop, İstanbul Üniversitesi, Turkey, February 2020

"Yeni bir kozmoloji teorisi neden gerekli?" 25 - 26 Ocak 2020 ODTÜ Fizik Bölümü Ankara, Workshop, "Yeni bir kozmoloji teorisi neden gerekli?" 25 - 26 Ocak 2020 ODTÜ Fizik Bölümü Ankara, Turkey, January 2020

"Kaotik Evren Teorisi" İstanbul Erkek Lisesi, 13 Ocak 2020 İstanbul, Conference, "Kaotik Evren Teorisi" İstanbul Erkek Lisesi, 13 Ocak 2020 İstanbul, Turkey, January 2020

Chaotic Universe Theory, Germany, Seminar, "Chaotic Universe Theory", Germany, Turkey, December 2019

"Kaotik Evren Teorisi" Çukurova Üniversitesi - Adana, Conference, "Kaotik Evren Teorisi" Çukurova Üniversitesi - Adana, Turkey, November 2019

"Evrenin Oluşumu ve Evrimi" Adana Fen Lisesi - Adana, Conference, "Evrenin Oluşumu ve Evrimi" Adana Fen Lisesi - Adana, Turkey, November 2019

"Kaotik Evren Teorisi" İstanbul Üniversitesi, İstanbul, Conference, "Kaotik Evren Teorisi" İstanbul Üniversitesi, İstanbul, Turkey, November 2019

Theory. 3rd International Turkey-Iran Joint Conference on LHC Physics, Conference, Chaotic Universe Theory. 3rd International Turkey-Iran Joint Conference on LHC Physics, Turkey, June 2019

Quantum Entanglement in Cosmology, İstanbul Teknik Üniversitesi, Conference, İstanbul Teknik Üniversitesi, Turkey, June 2019

Yoğun madde fiziklerinden ekonomi fizikine: Gelir dağılımının modellenmesi, Boğaziçi Üniversitesi, Conference, Boğaziçi Üniversitesi, Turkey, May 2019

Kompleks Sistemler Fizik Yasalarına Uyar mı?, Conference, Kompleks Sistemler Fizik Yasalarına Uyar mı? Kompleks Sistemler ve Veri Bilimi Çalıştayı 4 Mayıs 2019 Boğaziçi Üniversitesi, Turkey, May 2019

Kaotik Evren Teorisi, İÜ web tv, Conference, İstanbul Üniversitesi, Turkey, May 2019

Karadelikler, Haber Türk TV, Conference, Haber Türk Fatih Altaylı ile Teke Tek Programı Video: <https://www.youtube.com/watch?v=sIb1YmPeJrc&t=367s>, Turkey, May 2019

Evrenin Evrimi, Conference, Evrenin Evrimi- 2. Nova Bilim ve Teknoloji Sempozyumu 5 Nisan 2019, Turkey, April 2019

Yeni Fizik Arayışı: Kaotik Evren Teorisi, Conference, Chaotic Universe Theory, Doğu Akdeniz Üniversitesi, KKTC, Turkey,

April 2019

Kuantum Fizği ve KuantumTeknolojileri, Conference, Kuantum Fizği ve KuantumTeknolojileri, Araştırma Kültür Vakfı, Ankara, Turkey, January 2019

Bose-Einstein Fazında İtici Casimir Etkisi, Conference, Bose-Einstein Fazında İtici Casimir Etkisi, Kuantum Teknolojileri Çalıştayı, Koç ve İzzet Baysal Üniversitesi, Bolu, Turkey, January 2019

KAOTİK EVREN MODELİ, Conference, KAOTİK EVREN MODELİ, EVRİM AĞACI YOUTUBE KANALI 24 Kasım 2018
<https://www.youtube.com/watch?v=ik4cCBcq0qo>, Turkey, November 2018

Kozmolojinin derin problemleri ve Kaotik Evren Teorisi - The deep problem of the cosmology and chaotic universe theory, Conference, Kozmolojinin derin problemleri ve Kaotik Evren Teorisi - The deep problems of the cosmology and chaotic universe theory -- Disordered System Symposium , Turkey, October 2018

Parçacık Fiziği ve Kozmoloji, Conference, Ekrem Aydıner'in Kaotik Evren Modeli: Parçacık Fiziği ve Kozmoloji Bağlamında Tartışmalar, II. Yıldız Fizik Günleri, Yıldız Teknik Üniversitesi İstanbul 10-11 Mayıs 2018 , Turkey, May 2018

Veri Biliminde Karmaşıklık Fiziksel Doğası, Workshop, Veri Biliminde Karmaşıklık Fiziksel Doğası . Karmaşık Sistemler ve Veri Bilimi Çalıştayı- Bilgi Üniversitesi 26 Mayıs 2018, Turkey, May 2018

Kaotik evren modeli, Conference, Kaotik evren modeli, Yüksek Enerji Fiziği İstanbul Toplantısı (YEFİST2018), Mimar Sinan Güzel Sanatlar Üniversitesi İstanbul 27-28 Nisan 2018 , Turkey, April 2018

Magnetik Nanoparçacıkların Relaksasyon Dinamiği, İzmir Yüksek Teknoloji Enstitüsü, Workshop, İzmir Yüksek Teknoloji Enstitüsü, Turkey, April 2018

Kaotik Evren Modeli, Conference, Kaotik Evren Modeli (Özgen Berkol Doğan Kütüphanesi) Video:
<https://www.youtube.com/watch?v=6dZH4hDV24Q&fbclid=IwAR2HNmrT5t36yskrCqzCvuw16DGCdh3oY27m5Fwuja6WfHmU7if6JP7yw4A>, Turkey,

February 2018

Kaotik evren modeli, Conference, Kaotik evren modeli. YEFAK 2018 İstanbul Ü. 8-9 Şubat 2018. Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı , Turkey, February 2018

Evren hakkında bildiklerimiz - İELEV 10 Ocak 2018, Conference, Evren hakkında bildiklerimiz - İELEV 10 Ocak 2018, Turkey, January 2018

Klasik ve Kuantum Bilgisayarlar Beşiktaş Anadolu Lisesi, Conference, Klasik ve Kuantum Bilgisayarlar - Beşiktaş Anadolu Lisesi, Turkey, December 2017

Evrenin Kısa Tarihi - Mektebim Okulları Atakent Kampusu, Conference, Evrenin Kısa Tarihi - Mektebim Okulları Atakent Kampusu, Turkey, November 2017

Evrenin Fraktal Yapısı ve Kaotik Dinamiği, Bursa Gökyüzü Gözlem Şenliği, Conference, Evrenin Fraktal Yapısı ve Kaotik Dinamiği - Bursa Gökyüzü Gözlem Şenliği, Turkey, September 2017

Kuantum Bilgi Teknolojileri, Conference, Kuantum Bilgi Teknolojileri (Nova bilim ve teknoloji günleri) Bursa, Turkey, September 2017

Mikro ve Makro Evrende Kısa bir Yolculuk, Conference, Mikro ve Makro Evrende Kısa bir Yolculuk (İELEV, 125. Yıl), Turkey, June 2017

Evrenin Keşif, Conference, Evreni Keşif - İELEV, Çağaloğlu, Turkey, June 2017

Kaotik Evren Modeli, Conference, Kaotik Evren Modeli - İstanbul Uni Fizik Bölümü, Turkey, May 2017

Gelir Dağılımı, Pareto Yasası ve Açık Ekonomik Sistemler, İstanbul Teknik Üniversitesi, Conference, İstanbul Teknik Üniversitesi, Turkey, April 2017

Özgen Berkol Doğan Kütüphanesi, Conference, Karmaşıklık, Kaos ve Evrenin Dinamik Düzeni (Özgen Berkol Doğan Kütüphanesi) İstanbul, Turkey, November 2016

Ajan tabanlı modeller, Pareto yasası, paranın zaman içinde evrimi, Tobb Ekonomi ve Teknoloji Üniversitesi, Conference, Tobb Ekonomi Ve Teknoloji Üniversitesi, Turkey, November 2016

Kuantum faz geçişleri: Kuantum kritik fenomenler. , Conference, Kuantum faz geçişleri: Kuantum kritik fenomenler. Dokuz Eylül Ü. İzmir, Turkey, May 2016

Kuantum fiziği nedir? Ne işe yarar?, Conference, Kuantum fiziği nedir? Ne işe yarar? Beşiktaş Anadolu Lisesi, İstanbul, Turkey, May 2016

Marmara Üniversitesi, Conference, Maddenin Kuantum Halleri: Kuantum dolanıktan sicim teorisine - Marmara Üniversitesi, İstanbul, Turkey, May 2016

Evrenin Orijini ve Dinamiği, Conference, Evrenin Orijini ve Dinamiğinin İrdelenmesi - Yıldız Teknik Üni. İstanbul, Turkey,

April 2016

Evrenin dinamiđi, Conference, Fraktal Evren. İstanbul Ü. Amatör Astronomlar Klübü, İstanbul Üniversitesi, Turkey, March 2016

Kozmik evrimden biyolojik sistemlerin evrimine., Conference, Kozmik evrimden biyolojik sistemlerin evrimine. İstanbul, Turkey, January 2014

Evrenin oluşumu, tarihi ve evrimi, Conference, Evrenin Evrimi. İstanbul, Turkey, January 2014

Fizik yasaları, simetri, temel kuvvetler, düzen, simetri kırılması, karmaşa, evrim, kompleks sistemler, Conference, Fizik yasaları, simetri, temel kuvvetler, düzen, simetri kırılması, karmaşa, evrim, kompleks sistemler, İstanbul Üniversitesi Amatör Astronomlar Topluluđu, İstanbul, Turkey, January 2014

Yoğunluk Matrisi Renormalizasyon Grup yöntemi, Conference, DMRG ile Kuantum Dolanıklık Hesabı, Akdeniz Üniversitesi, Antalya, Turkey, May 2013

Arkeolojiden Zoolojiye Bilimde Güncel Konular, Conference, Turkey, May 2011

Arkeolojiden Zoolojiye Bilimde Güncel Konular, Conference, Arkeolojiden Zoolojiye Bilimde Güncel Konular, Akdeniz Ü, Antalya, Turkey, April 2011

Arkeolojiden Zoolojiye Bilimde Güncel Problemler, Conference, Arkeolojiden Zoolojiye Bilimde Güncel Problemler, Mersin Ü Bilim Şenliđi, Mersin, Turkey, February 2010

Voltaj-kapılı iyon kanallarının İstatistik Mekanik modeli, Conference, İYTE (Voltaj-kapılı iyon kanallarının İstatistik Mekanik modeli), Turkey, May 2009

Kaos Teorisi ve Fraktal Geometri, Conference, Kaos Teorisi ve Fraktal Geometri. Dokuz Eylül Ü. 6. Eğitim Çalıştayı, İzmir, Turkey, April 2007

2006 Yılına kadar 300 den fazla seminer, konuşma vs... , Conference, 2006 Yılına kadar 300 den fazla seminer, konuşma vs... , Turkey, February 2006

Scholarships

DAAD Awards, Humboldt Program, 2022 - 2022

YÖK Bilimsel Ziyaretçi Destek Bursu, YOK, 2011 - 2011

Awards

Aydiner E., Sedat Simavi Ödülü, Türkiye Gazeteciler Cemiyeti, December 2019

Non Academic Experience

İstanbul Uni

Middlesex University

Leeds University

Dokuz Eylül Uni

Çukurova Uni