

## Res. Asst. Erdiñ Ulař SAKA

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-5531-9252

Publons / Web Of Science ResearcherID: C-3947-2012

Yoksis Researcher ID: 175413

### Education Information

Doctorate, Istanbul University, Fen Bilimleri , Turkey 2007 - 2013

Postgraduate, Istanbul University, Fen Bilimleri , Turkey 2005 - 2007

Postgraduate, Universitaet Siegen, Fizik Fakültesi, Germany 2001 - 2005

Undergraduate, Istanbul University, Faculty Of Science, Turkey 1996 - 2000

### Foreign Languages

German, A1 Beginner

English, B2 Upper Intermediate

### Dissertations

Doctorate, DEĞİŞİKSİZ UZAYDA FİZİKSEL SİMETRİLERİN TANIMLANMASI VE FİZİKSEL UYGULAMALARI, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Abd, 2013

Postgraduate, KOMÜTATİF OLMAYAN  $N=2$  SÜPER YANG-MILLS AKSİYONUNUN BOYUTSAL İNDİRGEME YÖNTEMİ İLE OLUŞTURULMASI, Istanbul University, Fen Bilimleri, Fizik, 2007

### Research Areas

Physics, Basic Particles and Areas, General Theory of Particles and Fields, Natural Sciences

### Academic Titles / Tasks

Research Assistant PhD, Istanbul University, Faculty of Science, Department of Physics, 2006 - Continues

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2006 - Continues

Research Assistant, Universitaet Siegen, Fizik , Fizik, 2003 - 2004

### Academic and Administrative Experience

## Courses

PHYSICS, Undergraduate, 2021 - 2022  
Fizik 101, Undergraduate, 2021 - 2022  
Termodinamik ve İstatistik Mekanik Labaratuvarı, Undergraduate, 2018 - 2019  
Adi ve Kısmi Türevli Diferansiyel Denklemler, Undergraduate, 2018 - 2019  
calculus 2, Undergraduate, 2017 - 2018  
calculus 1, Undergraduate, 2017 - 2018  
introduction to linear algebra, Undergraduate, 2017 - 2018  
ordinary and partial differential equations, Undergraduate, 2017 - 2018  
Qunatum Physics II, Undergraduate, 2017 - 2018

## Advising Theses

SAKA E. U., ETKİN ALAN TEORİLERİ KULLANILARAK, KARANLIK MADDE ADAYLARININ, YÜKSEK ENERJİ FİZİĞİ DENEYLERİNDE GÖZLEMLENEBİLİRLİKLERİNİN ARAŞTIRILMASI, Doctorate, A.Kuday(Student), 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Scalar dark matter analysis of six-dimensional effective field theory**  
Kuday A. E., Özok F., SAKA E. U.  
International Journal of Geometric Methods in Modern Physics, vol.21, no.6, 2024 (SCI-Expanded)
- II. **Analysis of direct and indirect detection of fermionic dark matter of 6-dimensional effective field theory**  
Kuday A. E., ÖZOK F., Saka E. U.  
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.19, no.13, 2022 (SCI-Expanded)
- III. **Probing dark matter via effective field theory approach**  
Kuday A. E., Ozok F., SAKA E. U.  
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.17, no.2, 2020 (SCI-Expanded)
- IV. **A massive S-duality in four dimensions**  
Catal-Ozer A., Deliduman C., Saka E. U.  
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2011 (SCI-Expanded)
- V. **Dimensional reduction, Seiberg-Witten map, and supersymmetry**  
Saka E. U., Ulker K.  
PHYSICAL REVIEW D, vol.75, no.8, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Karanlık Madde Etkin Alan Teorisinde Simülasyon Araçları Uygulamaları**  
Saka E. U.  
Istanbul Sabahattin Zaim University Journal of the Institute of Science and Technology, vol.3, no.1, pp.56-59, 2021  
(Peer-Reviewed Journal)

## Books & Book Chapters

### I. Kornea Biyomekaniği: Deformasyon Dinamiğinin Modellenmesi

SAĞLAM U., TAŞ F., SAKA E. U.

in: Tıp Bilişimi II, Bozbuğa Nilgün, Gülseçen Sevinç, Kamer Vedat, Kurtuldu Başak, Editor, Istanbul University Press, İstanbul, pp.169-179, 2022

## Refereed Congress / Symposium Publications in Proceedings

### I. Kornea Biyomekaniği: Deformasyon Dinamiğinin Modellenmesi

Sağlam U., Taş F., Saka E. U.

II. Tıpta Bilişim Kongresi , İstanbul, Turkey, 30 September - 01 October 2021, pp.169-179

## Supported Projects

SAKA E. U., TUBITAK Project, Süpersicim ve M-Kuramının Çeşitli Kompaktifikasyonları ve Düaliteler, 2009 - 2011

## Tasks In Event Organizations

Saka E. U., İstanbul Yüksek Enerji Fiziği Çalıştayı, Workshop Organization, İstanbul, Turkey, Eylül 2022

Saka E. U., İstanbul Yüksek Enerji Fiziği çalıştayı, Workshop Organization, İstanbul, Turkey, Mayıs 2017

Saka E. U., İstanbul Yüksek Enerji Fiziği Çalıştayı, Workshop Organization, İstanbul, Turkey, Nisan 2016

Saka E. U., İstanbul Yüksek Enerji Fiziği Çalıştayı, Workshop Organization, İstanbul, Turkey, Nisan 2015

## Metrics

Publication: 8

Citation (WoS): 5

Citation (Scopus): 6

H-Index (WoS): 1

H-Index (Scopus): 1

## Congress and Symposium Activities

İstanbul Yüksek Enerji Fiziği Çalıştayı, Attendee, İstanbul, Turkey, 2014

## Non Academic Experience

Siegen Üniversitesi