

## Prof. Dr. MURAT ÖZER

### Kişisel Bilgiler

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### Araştırma Alanları

Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2019 - Devam Ediyor

### Yönetilen Tezler

ÖZER M., Sicim Motivasyonlu Skaler Alan Kozmolojileri Üzerine İncelemeler, Yüksek Lisans, K.M.(Öğrenci), 1993

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Quantification of scattering from fiber surface irregularities**  
Avram E., Mahmood W., ÖZER M.  
JOURNAL OF LIGHTWAVE TECHNOLOGY, cilt.20, sa.4, ss.634-637, 2002 (SCI-Expanded)
- II. **Fate of the universe, age of the universe, dark matter, and the decaying vacuum energy**  
Ozer M.  
ASTROPHYSICAL JOURNAL, cilt.520, sa.1, ss.45-53, 1999 (SCI-Expanded)
- III. **A nonsingular universe in string cosmology**  
Al-Nowaiser A. A., Ozer M., Taha M. O.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, cilt.8, sa.1, ss.43-49, 1999 (SCI-Expanded)
- IV. **Spontaneous decay of the effective cosmological constant**  
Ozer M., Taha M. O.  
MODERN PHYSICS LETTERS A, cilt.13, sa.7, ss.571-580, 1998 (SCI-Expanded)
- V. **Singular scalar field cosmologies with energy density decaying as  $t^{-2}$**   
Mubarak K. M., Ozer M.  
CLASSICAL AND QUANTUM GRAVITY, cilt.15, sa.1, ss.75-88, 1998 (SCI-Expanded)
- VI. **Bounds on the vacuum component in cosmology with a decaying vacuum energy**  
Özer M.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.404, ss.20-24, 1997 (SCI-Expanded)
- VII. **GIM mechanism and its consequences in the  $SU(3)(L) \times U(1)(X)$  models of electroweak interactions**  
Ozer M.  
PHYSICAL REVIEW D, cilt.54, sa.7, ss.4561-4565, 1996 (SCI-Expanded)
- VIII.  **$SU(3)(L) \times U(1)(X)$  model of electroweak interactions without exotic quarks**  
Ozer M.

PHYSICAL REVIEW D, cilt.54, sa.1, ss.1143-1149, 1996 (SCI-Expanded)

- IX. **Approximate calculation of the N-loop effective potential for large field values through the renormalization group equation**  
Ozer M.  
MODERN PHYSICS LETTERS A, cilt.11, sa.10, ss.805-813, 1996 (SCI-Expanded)
- X. **The electromagnetic gauge invariance in the SU(3) $\times$ U(1) $\times$  models of electroweak unification**  
Özer M.  
Physics Letters B, cilt.337, ss.324-327, 1994 (SCI-Expanded)
- XI. **ASYMPTOTIC-BEHAVIOR OF THE HIGGS COUPLING IN SU(2) $\times$ U(1) THEORY**  
ALHENDI H., OZER M., Taha M. O.  
PHYSICAL REVIEW D, cilt.46, sa.1, ss.428-430, 1992 (SCI-Expanded)
- XII. **Exact solutions in string-motivated scalar-field cosmology**  
Azer M., Taha M.  
Physical Review D, cilt.45, sa.4, 1992 (SCI-Expanded)
- XIII. **Top quark mass from gut mass relations**  
Alhendi H., Özer M., Taha M.  
Physics Letters B, cilt.213, sa.3, ss.337-339, 1988 (SCI-Expanded)
- XIV. **A model of the universe free of cosmological problems**  
Özer M., Taha M.  
Nuclear Physics, Section B, cilt.287, ss.776-796, 1987 (SCI-Expanded)
- XV. **THE HIGGS BOSON MASS IN STANDARD ELECTROWEAK THEORY**  
ALHENDI H., ÖZER M., Taha M. O.  
ZEITSCHRIFT FÜR PHYSIK C-PARTICLES AND FIELDS, cilt.36, sa.4, ss.639-641, 1987 (SCI-Expanded)
- XVI. **A possible solution to the main cosmological problems**  
Özer M., Taha M.  
Physics Letters B, cilt.171, sa.4, ss.363-365, 1986 (SCI-Expanded)
- XVII. **More on generalized gauge hierarchies with two-loop  $\beta$ -functions**  
Al-Hendi H., Özer M.  
Physics Letters B, cilt.166, sa.2, ss.183-185, 1986 (SCI-Expanded)
- XVIII. **PRECOCIOUS UNIFICATION IN SIMPLE GRAND UNIFIED THEORIES**  
OZER M.  
PHYSICAL REVIEW D, cilt.31, sa.1, ss.181-184, 1985 (SCI-Expanded)
- XIX. **Do light lepto-quark bosons exist?**  
Özer M.  
Physics Letters B, cilt.146, ss.233-236, 1984 (SCI-Expanded)
- XX. **The role of 75H in fermion mass hierarchy**  
Kim J. E., Özer M.  
Physics Letters B, cilt.134, sa.6, ss.425-428, 1984 (SCI-Expanded)
- XXI. **Fermion mass ratios and low energy grand unification**  
Özer M.  
Physics Letters B, cilt.124, ss.64-66, 1983 (SCI-Expanded)
- XXII. **More on generalized gauge hierarchies**  
Özer M.  
Physics Letters B, cilt.118, ss.355-358, 1982 (SCI-Expanded)
- XXIII. **NEUTRON-ANTINEUTRON OSCILLATIONS AND RENORMALIZATION EFFECTS FOR  $\Delta B=2$  6-QUARK OPERATORS**  
OZER M.  
PHYSICAL REVIEW D, cilt.26, sa.11, ss.3159-3166, 1982 (SCI-Expanded)
- XXIV. **COLOR PRODUCTION IN THE PATI-SALAM MODEL**  
Mtingwa S. K., OZER M.  
PHYSICAL REVIEW D, cilt.23, sa.1, ss.85-88, 1981 (SCI-Expanded)

## XXV. Liberated color in leptoproduction

Özer M., Pati J. C.

Nuclear Physics, Section B, cilt.159, sa.3, ss.293-315, 1979 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

- I. **Is There an Age of the Universe Problem after the Hipparcos Data?**  
ÖZER M.  
TURKISH JOURNAL OF PHYSICS, cilt.25, 2001 (Scopus)
- II. **On the One-Loop Yukawa Coupling Beta-Function to Order  $Y_g^2$  in a General  $U(1) \times SU(2) \times SU(3)$  Gauge and its Gauge Independence**  
ÖZER M.  
TURKISH JOURNAL OF PHYSICS, cilt.22, 1998 (Scopus)
- III.  **$SU(3)_C \times U(1)_X$  Models of Electroweak Unification with Natural Conservation Laws for Neutral Currents**  
ÖZER M.  
TURKISH JOURNAL OF PHYSICS, cilt.21, sa.4, ss.614-620, 1997 (Scopus)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Surface scratch and pit analysis on optical interfaces**  
Mahmood W., Ozer M., Avram E.  
Conference on Active and Passive Optical Components for WDM Communication, Colorado, Amerika Birleşik Devletleri, 21 - 24 Ağustos 2001, cilt.4532, ss.323-329

## Desteklenen Projeler

ÖZER M., Yükseköğretim Kurumları Destekli Proje, Genel Rölativite Teorisinin Elektromanyetizma Kısımının ve Gravitasyon ile Elektromanyetizmanın Yeni Birleşik Teorisinin Deneysel Testi, 2015 - 2018  
ÖZER M., Diğer Resmi Kurumlarca Desteklenen Proje, Elektrik Alanı İçerisinde Mössbauer İncelemeleri, 2010 - 2013

## Metrikler

Yayın: 29

Atıf (WoS): 724

Atıf (Scopus): 833

H-İndeks (WoS): 8

H-İndeks (Scopus): 10

## Akademi Dışı Deneyim

CIENA Corporation

King Saud University

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