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Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1986 - 1991
Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1983 - 1985
Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1979 - 1983

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2021 - Continues
Associate Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2007 - Continues
Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1993 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Re-evaluation of dlk of the normalised Friedmann-Lemaitre-Robertson-Walker model: Implications for Hubble constant determinations**
ÖZTAŞ A. M., Smith M. L.
NEW ASTRONOMY, vol.88, 2021 (SCI-Expanded)

II. **Cosmic future of universe inferred from the horizon behaviours in Lambda proportional to a(-2), Lambda proportional to H-2, Lambda proportional to rho cosmological constant models**
ÖZTAŞ A. M., Dil E., Tufekci O.
JOURNAL OF ASTROPHYSICS AND ASTRONOMY, vol.42, no.2, 2021 (SCI-Expanded)

III. **Entropic source of cosmological constant and implications: Generalization to higher dimensions**
ÖZTAŞ A. M., Dil E.
PHYSICS OF THE DARK UNIVERSE, vol.31, 2021 (SCI-Expanded)

IV. **Testing adiabatic expansion of polytropic universe model with SNe Ia data**
Dil E., ÖZTAŞ A. M., Dil E.
PHYSICA SCRIPTA, vol.95, no.6, 2020 (SCI-Expanded)

V. **The varying cosmological constant models tested with Supernovae Type Ia and HII Galaxy Data**
Dil E., ÖZTAŞ A. M., Dil E.
ASTRONOMY AND COMPUTING, vol.28, 2019 (SCI-Expanded)

VI. **The effects of a varying cosmological constant on the particle horizon**
ÖZTAŞ A. M.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.481, no.2, pp.2228-2234, 2018 (SCI-Expanded)

VII. **The varying cosmological constant: a new approximation to the Friedmann equations and universe model**
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VIII. **Space-time curvature and the cosmic horizon: derivations using the Newtonian world and the Friedmann-Robertson-Walker metric**
ÖZTAŞ A. M., Smith M. L.
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IX. **The Cosmological Constant Constrained with Union2.1 Supernovae Type Ia Data Derivation and Evaluation of Several FRW and Carmeli Models Presenting Underwhelming Support for the Standard Model**
ÖZTAŞ A. M., Smith M. L.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.53, no.8, pp.2636-2661, 2014 (SCI-Expanded)

X. **Is the possible fine-structure constant drift also a test of a time-dependent Planck constant?**
ÖZTAŞ A. M., Smith M. L.
SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, vol.54, no.12, pp.2191-2195, 2011 (SCI-Expanded)

XI. **CONSTRAINTS ON DARK ENERGY AND DARK MATTER FROM SUPERNOVAE AND GAMMA RAY BURST DATA**
Smith M. L., Sekaran B., ÖZTAŞ A. M., Paul J.
DARK ENERGY: THEORIES, DEVELOPMENTS AND IMPLICATIONS, pp.111-126, 2010 (SCI-Expanded)

XII. **Spacetime curvature is important for cosmology constrained with supernova emissions**
Oeztas A. M., Smith M. L., Paul J.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.9, pp.2464-2478, 2008 (SCI-Expanded)

XIII. **Elliptical solutions to the standard cosmology model with realistic values of matter density**
Oztas A. M., Smith M. L.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.45, no.5, pp.925-936, 2006 (SCI-Expanded)

XIV. **A model of light from ancient blue emissions**
Smith M. L., Oztas A. M., Paul J.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.45, no.5, pp.937-952, 2006 (SCI-Expanded)

XV. **Condition for gapless color-antitriplet excitations in Nambu-Jona-Lasinio models**
Sandin F., Oztas A. M.
PHYSICAL REVIEW C, vol.73, no.3, 2006 (SCI-Expanded)

XVI. **Phase diagram of three-flavor quark matter under compact star constraints**
Blaschke D., Fredriksson S., Grigorian H., Oztas A. M., Sandin F.
PHYSICAL REVIEW D, vol.72, no.6, 2005 (SCI-Expanded)

XVII. **Diquark condensation effects on hot quark star configurations**
Blaschke D., Fredriksson S., Grigorian H., Oztas A. M.
NUCLEAR PHYSICS A, vol.736, pp.203-219, 2004 (SCI-Expanded)

XVIII. **The low-temperature phase of the Heisenberg antiferromagnet in a fermionic representation**

Azakov S., Dilaver M., Oztas A. M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.14, no.1, pp.13-28, 2000 (SCI-Expanded)

XIX. **PHASE-TRANSITION IN FINITE-TEMPERATURE STRING THEORIES**
OZTAS A. M., GUNDUC Y., CELIK T.
ZEITSCHRIFT FUR PHYSIK C-PARTICLES AND FIELDS, vol.63, no.4, pp.655-657, 1994 (SCI-Expanded)

Articles Published in Other Journals

I. **Epochs of discontinuity for the standard model of cosmology with supernovae observational data**
Smith M. L., ÖZTAŞ A. M.
Advanced Studies in Theoretical Physics, vol.2, no.1, pp.1-10, 2008 (Scopus)

II. **Estimation of redshifts from early galaxies**
Smith M. L., ÖZTAŞ A. M., Paul J.
Annales de la Fondation Louis de Broglie, vol.32, no.1, pp.61-67, 2007 (Scopus)

Books & Book Chapters

I. **Constraints on Dark Energy and Dark Matter from Supernovaeand Gamma Ray Burst Data**
SMITH M., SAKARAN B., ÖZTAŞ A. M., PAUL J.
in: DARK ENERGY THEORIES DEVELOPMENTS AND IMPLICATIONS, KARL LEFEBVRE, RAOUL GARCIA, Editor, NOVA Science Publishers, Inc., New-York, pp.111-126, 2011

II. **A Polytropic Solution ofthe Expanding Universe – ConstrainingRelativistic and Non-Relativistic MatterDensities Using Astronomical Results**
ÖZTAŞ A. M., ML S.
in: Aspects of Today s Cosmology, Antonio Alfonso-Faus, Editor, IN TECH, Rijeka, pp.285-304, 2010

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