

# Prof. SALİH CEM İNAN

## Personal Information

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## International Researcher IDs

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Yoksis Researcher ID: 30642

## Education Information

Doctorate, Ankara University, Turkey 2005 - 2009

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Turkey 2002 - 2005

Undergraduate, Ankara University, Department Of Physics, Turkey 1998 - 2002

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Büyük ek boyutların çarpıştırıcılarda ve düşük enerjilerde incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, 2009

Postgraduate, CLIC' de Higgs Bozon Üretiminin Simülasyon Program Paketlerinin Yardımıyla İncelenmesi , Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2005

## Research Areas

General Theory of Particles and Fields, Properties of special particles, Special reactions and phenomenology, Special theories and interaction models, particle systematics

## Academic Titles / Tasks

Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2019 - Continues

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2012 - 2019

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2010 - 2012

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2002 - 2010

## Academic and Administrative Experience

Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2019 - 2021

Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2011 - 2020

Doçent Temsilcisi, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2015 - 2018

Deputy Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2013 - 2016

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

- I. **Probe of axion-like particles in vector boson scattering at a muon collider**  
İNAN S. C., Kisselev A.  
Journal of Physics G: Nuclear and Particle Physics, vol.50, no.10, 2023 (SCI-Expanded)
- II. **Search for noncommutative interactions in gamma gamma -> gamma gamma process at the LHC**  
Inan S. C., Kisselev A.  
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.9, 2022 (SCI-Expanded)
- III. **Search for invisible dark photon in gamma e scattering at future lepton colliders**  
Inan S. C., Kisselev A. V.  
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.7, 2022 (SCI-Expanded)
- IV. **Probing anomalous gamma gamma gamma Z couplings through gamma Z production in gamma gamma collisions at the CLIC**  
Inan S. C., Kisselev A.  
JOURNAL OF HIGH ENERGY PHYSICS, vol.2021, no.10, 2021 (SCI-Expanded)
- V. **Probing anomalous quartic gamma gamma gamma gamma couplings in light-by-light collisions at the CLIC**  
Inan S. C., Kisselev A. V.  
EUROPEAN PHYSICAL JOURNAL C, vol.81, no.7, 2021 (SCI-Expanded)
- VI. **Polarized light-by-light scattering at the CLIC induced by axion-like particles**  
Inan S. C., Kisselev A. V.  
CHINESE PHYSICS C, vol.45, no.4, 2021 (SCI-Expanded)
- VII. **Muon pair production via photon-induced scattering at the CLIC in models with extra dimensions**  
Inan S. C., Kisselev A. V.  
NUCLEAR PHYSICS B, vol.956, 2020 (SCI-Expanded)
- VIII. **A search for axion-like particles in light-by-light scattering at the CLIC**  
Inan S. C., Kisselev A. V.  
JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.6, 2020 (SCI-Expanded)
- IX. **Probe of the Randall-Sundrum-like model with the small curvature via light-by-light scattering at the LHC**  
İNAN S. C., Kisselev A.  
PHYSICAL REVIEW D, vol.100, no.9, 2019 (SCI-Expanded)
- X. **Search for the RS model with a small curvature through photon-induced process at the LHC**  
Inan S. C., Kisselev A.  
EUROPEAN PHYSICAL JOURNAL C, vol.78, no.9, 2018 (SCI-Expanded)
- XI. **Analysis of the anomalous electromagnetic moments of the tau lepton in gamma p collisions at the LHC**  
Koksal M., Inan S. C., Billur A. A., Ozguven Y., Bahar M. K.  
PHYSICS LETTERS B, vol.783, pp.375-380, 2018 (SCI-Expanded)
- XII. **Search for the anomalous electromagnetic moments of tau lepton through electron-photon scattering at CLIC**  
Ozguven Y., Billur A. A., Inan S. C., Bahar M. K., Koksal M.  
NUCLEAR PHYSICS B, vol.923, pp.475-490, 2017 (SCI-Expanded)
- XIII. **Probe of the Anomalous Quartic Couplings with Beam Polarization at the CLIC**  
Senol A., Koksal M., Inan S. C.  
ADVANCES IN HIGH ENERGY PHYSICS, 2017 (SCI-Expanded)
- XIV. **Anomalous WW gamma couplings with beam polarization at the Compact Linear Collider**

- Ari V., Billur A. A., Inan S. C., Koksals M.  
NUCLEAR PHYSICS B, vol.906, pp.211-230, 2016 (SCI-Expanded)
- XV. **Dimension-six anomalous  $tq$  gamma couplings in gamma gamma collision at the LHC**  
Inan S. C.  
NUCLEAR PHYSICS B, vol.897, pp.289-301, 2015 (SCI-Expanded)
- XVI. **Graviton production through photon-quark scattering at the LHC**  
Sahin I., Koksals M., Inan S. C., Billur A. A., Sahin B., Tektas P., Alici E., Yildirim R.  
PHYSICAL REVIEW D, vol.91, no.3, 2015 (SCI-Expanded)
- XVII. **Search for the Anomalous Interactions of Up-Type Heavy Quarks in gamma gamma Collision at the LHC**  
Koksals M., Inan S. C.  
ADVANCES IN HIGH ENERGY PHYSICS, 2014 (SCI-Expanded)
- XVIII. **Anomalous  $tq$  gamma Couplings in gamma p Collision at the LHC**  
Koksals M., Inan S. C.  
ADVANCES IN HIGH ENERGY PHYSICS, 2014 (SCI-Expanded)
- XIX. **Probe of extra dimensions in gamma q -> gamma q at the LHC**  
Sahin I., Billur A. A., Inan S. C., Sahin B., Koksals M., Tektas P., Alici E., Yildirim R.  
PHYSICAL REVIEW D, vol.88, no.9, 2013 (SCI-Expanded)
- XX. **THE EFFECT OF ELECTROMAGNETIC PROPERTIES OF NEUTRINOS ON THE PHOTON-NEUTRINO DECOUPLING TEMPERATURE**  
Inan S. C., Koksals M.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.27, no.32, 2012 (SCI-Expanded)
- XXI. **Direct Graviton Production via Photon-Photon Fusion at the CERN-LHC**  
Inan S. C.  
CHINESE PHYSICS LETTERS, vol.29, no.3, 2012 (SCI-Expanded)
- XXII. **The Impact of Excited Neutrinos on  $\nu(\bar{\nu}) \rightarrow \gamma\gamma$  Process**  
Inan S. C., Koksals M.  
ADVANCES IN HIGH ENERGY PHYSICS, 2012 (SCI-Expanded)
- XXIII. **Polarized top pair production in extra dimension models via photon-photon fusion at the CERN LHC**  
Inan S. C., Billur A. A.  
PHYSICAL REVIEW D, vol.84, no.9, 2011 (SCI-Expanded)
- XXIV. **FOURTH GENERATION LEPTONS SEARCH IN  $\gamma\gamma \rightarrow l^{(-)} l^{(+)}$  PROCESS AT THE CERN-LHC**  
Inan S. C.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.26, no.21, pp.3605-3613, 2011 (SCI-Expanded)
- XXV. **Extra dimensions in gamma gamma -> gamma gamma process at the CERN-LHC**  
Atag S., Inan S. C., Sahin I.  
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2010 (SCI-Expanded)
- XXVI. **Exclusive excited leptons search in two lepton final states at the CERN LHC**  
Inan S. C.  
PHYSICAL REVIEW D, vol.81, no.11, 2010 (SCI-Expanded)
- XXVII. **Unitarity Analysis of FCNC Top Quark Couplings**  
İNAN S. C.  
Balkan Physics Letters, 2010 (SCI-Expanded)
- XXVIII. **Extra dimensions in photon-induced two lepton final states at the CERN LHC**  
Atag S., Inan S. C., Sahin I.  
PHYSICAL REVIEW D, vol.80, no.7, 2009 (SCI-Expanded)
- XXIX. **Probe of unparticles at the LHC in exclusive two lepton and two photon production via photon-photon fusion**  
Sahin I., Inan S. C.  
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **CLIC'te Spin-1/2 Leptonların  $l l$  Süreci ile İncelenmesi**  
İNAN S. C.  
Cumhuriyet Science Journal, vol.38, no.4, pp.115-120, 2017 (Peer-Reviewed Journal)
- II. **6 Boyutlu Anomal  $t\bar{t}\gamma$  Çiftleniminin Foton İndüklü Süreç ile 100 TeV Kütle Merkezi Enerjisinde İncelenmesi**  
İNAN S. C.  
Cumhuriyet Science Journal, vol.37, no.4, 2016 (Peer-Reviewed Journal)
- III. **Search for the anomalous electromagnetic moments of the tau lepton through electron photon scattering at the CLIC**  
ÖZGÜVEN Y., İNAN S. C., BİLLUR A. A., KÖKSAL M., BAHAR M. K.  
arXiv, 2016 (Non Peer-Reviewed Journal)
- IV. **Probe of extra dimensions in rare decay  $Z \rightarrow \nu\nu\gamma\gamma$**   
İnan S. C.  
Balkan Physics Letter, vol.18, pp.190-195, 2010 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Large Extra Dimensions Search Through The Process  $l l \rightarrow \gamma\gamma$  At The CLIC and FF- $\mu\mu$**   
İNAN S. C.  
2. Uluslararası 19 Mayıs Yenilikçi Bilimsel Yaklaşımlar Kongresi, 27 - 29 December 2019
- II. **Komütatif Olmayan Uzay-Zamanın Foton İndüklü Süreçler İle HE-LHC'de İncelenmesi**  
İNAN S. C.  
2. Uluslararası 19 Mayıs Yenilikçi Bilimsel Yaklaşımlar Kongresi, 27 - 29 December 2019
- III. **Search for noncommutative space-time in foton-foton-Z process at the LHC**  
İNAN S. C.  
V. International Multidisciplinary Congress Of Eurasia, 24 - 26 July 2018
- IV. **Search for the ADD Model in Photon-Induced Reactions at the CLIC**  
BİLLUR A. A., İNAN S. C.  
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017
- V. **Gauge Bosons Anomalous Quartic Couplings Search at the CLIC**  
İNAN S. C., KÖKSAL M., ŞENOL A.  
III. International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
- VI. **Probing for the anomalous electromagnetic moments of the tau lepton via electron-photon interactions at the CLIC**  
BİLLUR A. A., KÖKSAL M., İNAN S. C.  
3th International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
- VII. **Search for spin 3/2 excited leptons via photoninduced reactions at the LHC**  
İNAN S. C., BİLLUR A. A., KÖKSAL M.  
3rd International Conference on Engineering and Natural Science, 3 - 07 May 2017
- VIII. **Probing The Anomalous Electromagnetic Moments Of The Tau Lepton In  $\gamma\gamma$  Collisions At The LHC**  
KÖKSAL M., İNAN S. C., BİLLUR A. A., BAHAR M. K., Özgüven Y.  
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017
- IX. **Search for extra dimension models in top-quark pair production via photon-photon fusion at the cern-lhc**  
BİLLUR A. A., İNAN S. C.  
3th International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
- X. **Search for anomalous  $t\bar{t}\gamma\gamma$  interactions through gamma-gamma collisions at the CLIC**  
KÖKSAL M., İNAN S. C., BİLLUR A. A.

3th International Conference on Engineering and Natural Sciences, 3 - 07 May 2017

- XI. **Effect of the anomalous couplings on the single top quark spin asymmetry in photon photon interactions at the LHC**

İNAN S. C.

IX. International Workshop on Nuclear Structure Properties, 1 - 03 September 2016

- XII. **Extra Dimensions Search in Photon Induced Reactions at the LHC**

İNAN S. C.

7th International Workshop on Nuclear Structure Properties, 27 - 29 October 2014

- XIII. **Top Quark Flavor Changing Interactions In Photon Induced Reactions at the LHC**

İNAN S. C.

Türk Fizik Derneği 31. Uluslararası Fizik Kongresi, 23 - 26 July 2014

- XIV. **LHC de EK BOYUTLARDAN İKİ LEPTON SON DURUMLU PHOTO ÜRETİM**

İNAN S. C.

Ankara Yüksek Enerji Fiziği Günleri, Turkey, 29 - 30 May 2009

- XV. **Production of the randall-sundrum type kaluza-klein excitations at future  $e^{(+)}e^{(-)}$ , ep and pp colliders**

Billur A. A., Ciftci A. K., Ciftci R., Inan S. C., Sultansoy S.

6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.187-188

- XVI. **Production of the ADD type Kaluza-Klein excitations at future  $e^{(+)}e^{(-)}$ , ep and pp colliders**

Billur A. A., Ciftci A. K., Ciftci R., Inan S. C., Sultansoy S.

6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.199-200

## Supported Projects

İnan S. C., Project Supported by Higher Education Institutions, Komütatif-olmayan uzay-zamanda Z bozonu üretiminin LHC'de foton indüklü süreçlerle incelenmesi, 2018 - 2019

İnan S. C., TUBITAK Project, Tau Leptonun Elektromanyetik Özelliklerinin Lepton Ve Hadron Çarpıştırıcılarında Araştırılması, 2015 - 2018

Bahar M. K., İnan S. C., TUBITAK Project, Tau leptonun elektromanyetik özelliklerinin lepton ve hadron çarpıştırıcılarında araştırılması, 2015 - 2018

İnan S. C., Billur A. A., Project Supported by Higher Education Institutions, Uyarılmış Spin 3/2 Fermiyonların Foton Foton Etkileşmelerinde İncelenmesi, 2016 - 2017

İnan S. C., Şahin İ., TUBITAK Project, Ek Boyutların CERN LHC de Foton İndüklü Reaksiyonlarda Araştırılması, 2013 - 2015

İnan S. C., Project Supported by Higher Education Institutions, CERN LHC de İndüklenmiş Foton Reaksiyonlarıyla Fermiyonların Çeşni Değişim Süreçlerinin İncelenmesi, 2012 - 2014

İnan S. C., Project Supported by Higher Education Institutions, LHC de Ayrık Exclusive Üretim Süreçleriyle Standart Model Ötesi Teorilerin İncelenmesi, 2011 - 2012

## Metrics

Publication: 49

Citation (WoS): 527

Citation (Scopus): 325

H-Index (WoS): 12

H-Index (Scopus): 13