

Prof. İLKER İNAM

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: DUZ-5808-2022

ScopusID: 25925069700

Yoksis Researcher ID: 103349

Education Information

Doctorate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2005 - 2011

Postgraduate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey 2003 - 2005

Undergraduate, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1999 - 2003

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Modüler formlar, eliptik eğriler ve uygulamaları, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2011

Postgraduate, Analitik örtü dönüşümleri ve modüler fonksiyonlara uygulanması, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), 2005

Research Areas

Number Theory

Academic Titles / Tasks

Professor, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2023 - Continues

Associate Professor, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2015 - 2023

Assistant Professor, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2015 - 2015

Assistant Professor, Bilecik Seyh Edebali University, Osmaneli Meslek Yüksekokulu, 2014 - 2015

Research Assistant, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Matematik, 2005 - 2014

Academic and Administrative Experience

Bilecik Seyh Edebali University, 2020 - 2020
Bilecik Seyh Edebali University, 2019 - 2020
Bilecik Seyh Edebali University, 2019 - 2020
Bilecik Seyh Edebali University, 2019 - 2020
Bilecik Seyh Edebali University, 2019 - 2020
Bilecik Seyh Edebali University, 2017 - 2020

Courses

MAT403 NUMBER THEORY, Undergraduate, 2023 - 2024, 2015 - 2016, 2014 - 2015
MAT563 SAYILAR TEORİSİNDE SEÇME KONULAR, Postgraduate, 2015 - 2016, 2014 - 2015
MAT213 CEBİR I, Undergraduate, 2015 - 2016, 2014 - 2015
MAT408 Araştırma Projesi, Undergraduate, 2014 - 2015
MAT402 Reel Analiz, Undergraduate, 2014 - 2015
MAT302 Kompleks Fonksiyonlar Teorisi II, Undergraduate, 2014 - 2015
MAT214 CEBİR II, Undergraduate, 2014 - 2015, 2013 - 2014
MAT301 Kompleks Fonksiyonlar Teorisi I, Undergraduate, 2014 - 2015
MAT121 Matematik I, Associate Degree, 2014 - 2015
MAT534 Cebirden Seçme Konular, Postgraduate, 2014 - 2015
MAT102 Analiz II, Undergraduate, 2014 - 2015
MAT320 Nümerik Analiz, Undergraduate, 2013 - 2014
MAT122 Matematik II, Associate Degree, 2013 - 2014
MAT110 Matematik Tarihi, Undergraduate, 2013 - 2014

Advising Theses

İNAM İ., Dedekind-eta çarpımlarından oluşan yarım tamsayı ağırlıklı hecke eigenformların sınıflandırılması, Doctorate, B.İREZ(Student), 2023
İNAM İ., Logaritmalarda Lineer Formların Sayılar Teorisindeki Bazı Uygulamaları Üzerine, Doctorate, Z.PINAR(Student), 2023
İNAM İ., Ramanujan tau fonksiyonu üzerine, Postgraduate, Y.CAN(Student), 2022
İNAM İ., Diophantine M-lileri ile oluşturulan eliptik eğriler üzerine, Postgraduate, S.TOPÇU(Student), 2022
İNAM İ., Yarım tamsayı ağırlıklı modüler formlar üzerinde Sato-Tate benzeri problemler üzerine, Doctorate, Z.DEMİRKOL(Student), 2022
İNAM İ., Rankin-Cohen operatörleri ve uygulamaları, Postgraduate, E.TERCAN(Student), 2021
İNAM İ., Bazı üstel diophantine denklemleri üzerine, Postgraduate, S.NUR(Student), 2019
İNAM İ., Eliptik eğrilerin rankları üzerine, Postgraduate, A.GÖR(Student), 2019
İNAM İ., Kuadratik formlar ve modüler formlar, Postgraduate, E.CIVGIN(Student), 2019
İNAM İ., Eliptik eğrilerin farklı modelleri üzerine, Postgraduate, B.YAŞAR(Student), 2019
İNAM İ., Yarım tamsayı ağırlıklı modüler formlar üzerine, Postgraduate, Z.DEMİRKOL(Student), 2017
İNAM İ., İkiz asallar üzerine, Postgraduate, H.DAĞLAR(Student), 2017
İNAM İ., Riemann yüzeylerinin fizik uygulamaları: Modüller uzayları, Postgraduate, U.AVCI(Student), 2017
İNAM İ., Birch Ve Swinnerton-Dyer Konjektürü Üzerine, Postgraduate, F.TANRIKULU(Student), 2017
İNAM İ., Bazı diophantine denklemlerinin çözümleri üzerine, Postgraduate, M.KILIÇ(Student), 2016
İNAM İ., Eisenstein serileri üzerine, Postgraduate, K.ELMAAĞAÇ(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **FAST COMPUTATION OF HALF-INTEGRAL WEIGHT MODULAR FORMS**
İNAM İ., Wiese G.
Rocky Mountain Journal of Mathematics, vol.52, no.4, pp.1395-1401, 2022 (SCI-Expanded)
- II. **On the distribution of coefficients of half-integral weight modular forms and the Bruinier–Kohnen conjecture**
İNAM İ., Özkaya Z. D., Tercan E., Wiese G.
Turkish Journal of Mathematics, vol.45, no.6, pp.2427-2440, 2021 (SCI-Expanded)
- III. **A short note on the Bruinier-Kohnen sign equidistribution conjecture and Halász' theorem**
İNAM İ., Wiese G.
International Journal of Number Theory, vol.12, no.2, pp.357-360, 2016 (SCI-Expanded)
- IV. **On conjectures of Sato–Tate and Bruinier–Kohnen**
Arias-de-Reyna S., İNAM İ., Wiese G.
Ramanujan Journal, vol.36, no.3, pp.455-481, 2015 (SCI-Expanded)
- V. **Equidistribution of signs for modular eigenforms of half integral weight**
İNAM İ., Wiese G.
Archiv der Mathematik, vol.101, no.4, pp.331-339, 2013 (SCI-Expanded)
- VI. **On the diophantine equation $x^2 + 2a \cdot 3b \cdot 11c = y^n$**
CANGÜL İ. N., DEMİRÇİ M., İNAM İ., Luca F., SOYDAN G.
Mathematica Slovaca, vol.63, no.3, pp.647-659, 2013 (SCI-Expanded)
- VII. **Selmer groups in twist families of elliptic curves**
İNAM İ.
Quaestiones Mathematicae, vol.35, no.4, pp.471-487, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **On the Hecke eigenforms of half-integral weight and Dedekind-eta products**
İREZ AYDIN B., İNAM İ.
ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.16, 2023 (ESCI)
- II. **An Example of an Elliptic Curve with High Rank Induced by Rational Diophantine Triples**
TOPÇU S., İREZ AYDIN B., İNAM İ.
International Journal of Advanced Multidisciplinary Research and Studies, vol.2, no.5, pp.430-431, 2022 (Peer-Reviewed Journal)
- III. **ON THE PELL-EISENSTEIN SERIES OF POWER m**
İNAM İ., UYSAL M., ÖZKAN E., DEMİRKOL ÖZKAYA Z.
Bulletin of the Transilvania University of Braşov Series III: Mathematics and Computer Science, vol.2, no.64, pp.77-82, 2022 (Scopus)
- IV. **A short note on the Pell-Lucas-Eisenstein series**
UYSAL M., İNAM İ., ÖZKAN E.
Asian-European Journal of Mathematics, vol.15, no.5, 2022 (ESCI)
- V. **A Cusp Form Example as an Eta Product**
DEMİRKOL ÖZKAYA Z., AVCI U., İNAM İ.
International Journal of Advanced Multidisciplinary Research and Studies, vol.2, no.2, pp.347-349, 2022 (Peer-Reviewed Journal)
- VI. **Hecke Eigenform Examples Obtained by Rankin-Cohen Brackets**
İNAM İ., TERCAN E., AYDIN B. İ., ÖZKAYA Z. D.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.772-778, 2020 (Peer-Reviewed Journal)
- VII. **On Hecke Eigenforms of Weight $3/2$**
İNAM İ., CIVGIN E.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.4, pp.1203-1208, 2019 (Peer-Reviewed Journal)
- VIII. **Rational points on Frey elliptic curves $y^2 = x^3 + n^2x + 2x^3 + 3n^2x$**

İNAM İ., BİZİM O., CANGÜL İ. N.

Advanced Studies in Contemporary Mathematics, vol.14, no.1, pp.69-76, 2007 (Peer-Reviewed Journal)

IX. **Corrigendum on The Number of Points on Elliptic Curves $E y^2 = x^3 + cx$ over $\mathbb{F}_p \bmod 8$**

İNAM İ., SOYDAN G., DEMİRCİ M., BİZİM O., CANGÜL İ. N.

Communications of the Korean Mathematical Society, vol.22, no.2, pp.207-208, 2007 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **On the Ramanujan-Tau Function**
İNAM İ., Baynal Y. C.
Middle East International Conference on Contemporary Scientific Studies VII, Beirut, Lebanon, 03 March 2022, vol.2, pp.216
- II. **359 Yıllık Serüven: Fermat'ın Son Teoremi**
İNAM İ.
Selçuk Üniversitesi Matematik Bölümü Seminerleri, Konya, Turkey, 17 November 2021
- III. **Modüler Form Uzaylarının Boyutları Üzerine**
Usluoğlu Y., İNAM İ.
33. Ulusal Matematik Sempozyumu, İstanbul (Online), Turkey, 31 August 2021, vol.1, pp.58
- IV. **On Dimensions of Spaces of Modular Forms**
İNAM İ., Sevinç K.
International Marmara Sciences Congress, Kocaeli, Turkey, 04 December 2020, pp.98
- V. **From Quadratic Forms to Modular Forms**
İNAM İ., CIVGIN E.
Journees Arithmetiques, İstanbul, Turkey, 1 - 05 July 2019, pp.44
- VI. **Jesmanowicz Sanısı Üzerine**
AKKUŞ S. N., İNAM İ.
14. Ankara Matematik Günleri Sempozyumu, Turkey, 28 - 29 June 2019
- VII. **Eliptik Eğriler İçin Verilen Bazı Modellerin Derlenmesi**
BAYRAM Y., İNAM İ.
2. Uluslararası İstatistik Matematik ve Analitik Yöntemler Kongresi, 28 March 2019
- VIII. **The Sato-Tate Conjecture: History and Consequences**
İNAM İ.
International Conference on Mathematical Studies and Applications 2018, Karaman, Turkey, 04 October 2018
- IX. **Elliptic Curves: Introduction and Some Properties**
GÖR A., İNAM İ.
International Conference on Mathematical Studies and Applications 2018, 4 - 06 October 2018
- X. **On the Sato-Tate Conjecture**
İNAM İ.
The Second Romanian-Turkish Mathematics Colloquium, 25 - 29 October 2017
- XI. **Eliptik Eğriler ve Kongrüent Sayı Problemi**
TANRIKULU F., İNAM İ.
11. Ankara Matematik Günleri, Turkey, 26 June 2016 - 26 June 2017
- XII. **Asal Sayılar ve Riemann Hipotezi**
İNAM İ., DAĞLAR H.
12. Ankara Matematik Günleri, Ankara, Turkey, 25 - 26 June 2017
- XIII. **Computations with Modular Forms**
İNAM İ.
Sabancı University Math Colloquim, 30 November 2016
- XIV. **Bazı Üstel Diophantine Denklemleri Üzerine**
İNAM İ., Kılıç M.

28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015

XV. **Some Problems and A Possible Conjecture On Half Integral Weight Modular Forms**

İNAM İ.

Galatasaray Üniversitesi Matematik Bölümü Seminerleri, İstanbul, Turkey, 20 May 2015

XVI. **Modüler Grup ve Bazı Altgruplarının Temel Bölgeleri Üzerine**

ELMAAĞAÇ K., İNAM İ.

14. Matematik Sempozyumu, Niğde, Turkey, 14 - 16 May 2015

XVII. **Some problems on half integral weight modular forms**

İNAM İ.

ODTÜ Bölüm Seminerleri, Ankara, Turkey, 26 March 2015

XVIII. **Some Strong Consequences of the Sato Tate Conjecture**

İNAM İ.

İYTE Matematik Bölüm Seminerleri, İzmir, Turkey, 19 December 2014

Supported Projects

İnam İ., TUBITAK Project, Yarım Tamsayı Ağırlıklı Modüler Formlar Üzerinde Sato-Tate Benzeri Problemler Üzerine, 2018 - 2021

İNAM İ., Project Supported by Higher Education Institutions, Hecke Eigenformlar Üzerine, 2018 - 2020

İnam İ., Project Supported by Higher Education Institutions, Diyofant Denklemlerinin Eliptik Eğriler Üzerine Uygulamaları UAP F 2012 20, 2012 - 2014

İNAM İ., Project Supported by Higher Education Institutions, Modüler Grubun Denklik Alt Grubu Olmayan Alt Grupları Üzerine Kurulan Cusp Formlar Üzerine, 2012 - 2014

İnam İ., Project Supported by Higher Education Institutions, Modüler Grubun Denklik Altgrubu Olmayan Alt Grupları Üzerine Kurulu Cusp Formlar Üzerine UAP F 2012 15, 2011 - 2013

TUBITAK Project, Modüler formlar eliptik eğriler ve uygulamaları 107T311, 2007 - 2009

Activities in Scientific Journals

Mathematics Open, Editor, 2022 - Continues

ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, Editor, 2018 - Continues

Memberships / Tasks in Scientific Organizations

Turkish Math Society, Member, 2021 - Continues, Turkey

American Mathematical Society, Member, 2017 - Continues, United States Of America