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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, University of Southern California, Fen Bilimleri Enstitüsü, Matematik , Amerika Birleşik Devletleri 1996 - 2000

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik , Türkiye 1993 - 1996

Lisans, Orta Doğu Teknik Üniversitesi, Fen Fakültesi, Matematik , Türkiye 1989 - 1993

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, The Weil-Petersson and Thurston Symplectic Forms, University Of Southern California, Matematik Bölümü, 2000

Yüksek Lisans, Characterization of quasidiagonal isomorphisms between some types of kothe spaces, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Restoratif Diş Tedavisi A.B.D., 1996

Araştırma Alanları

Matematik, Cebirsel Topoloji, Geometri, Manifoldlar ve Hücre Kompleksleri, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2014 - Devam Ediyor

Doç. Dr., Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2013 - 2014

Doç. Dr., Fatih Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2008 - 2013

Yrd. Doç. Dr., Fatih Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2005 - 2008

Yrd. Doç. Dr., Rowan University, Fen-Edebiyat, Matematik, 2004 - 2005

Yrd. Doç. Dr., University of Connecticut, Fen-Edebiyat, Matematik, 2001 - 2004

Yrd. Doç. Dr., University of Georgia, Fen-Edebiyat, Matematik, 2000 - 2001

Araştırma Görevlisi, University of Southern California, Fen-Edebiyat, Matematik, 1996 - 2000

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, 1993 - 1996

Akademik İdari Deneyim

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2015 - 2016
Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2014 - 2016
Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2013 - 2014

Verdiği Dersler

CEBIRSEL TOPOLOJIYE GIRIS, Lisans, 2016 - 2017
GEOMETRİDE SEÇME KONULAR I, Doktora, 2016 - 2017
HIPERBOLİK GEOMETRIYE GIRIS, Lisans, 2016 - 2017
GENEL TOPOLOJİ, Lisans, 2016 - 2017

Yönetilen Tezler

SÖZEN Y., Fractional spaces generated by positive differential operators with the nonlocal condition, Doktora, N.NALBANT(Öğrenci), 2016
SÖZEN Y., Reidemeister torsyon ve yönlendirilmiş yüzeylerin pantolon parçalanışı, Yüksek Lisans, E.DİRİCAN(Öğrenci), 2015
SÖZEN Y., Fractional spaces generated by positive operators in the half-space, Doktora, S.AKTÜRK(Öğrenci), 2014
SÖZEN Y., Structure of the fractional spaces generated by positive operators and applications, Yüksek Lisans, N.NALBANT(Öğrenci), 2011

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Numerical approaches for solution of hyperbolic difference equations on circle
Ashyralyev A., Hezenci F., SÖZEN Y.
Georgian Mathematical Journal, 2024 (SCI-Expanded)
- II. A Note on Stability of Parabolic Difference Equations on Torus
Ashyralyev A., Hezenci F., SÖZEN Y.
Numerical Functional Analysis and Optimization, cilt.44, 2023 (SCI-Expanded)
- III. Representation variety of free or surface groups and Reidemeister torsion
Hezenci F., SÖZEN Y.
TURKISH JOURNAL OF MATHEMATICS, cilt.46, ss.1408-1423, 2022 (SCI-Expanded)
- IV. On Reidemeister torsion of flag manifolds of compact semisimple Lie groups
Ozel C., Basbaydar H., SÖZEN Y., YILMAZ E., Lee J. R., Park C.
AIMS MATHEMATICS, cilt.5, sa.6, ss.7562-7581, 2020 (SCI-Expanded)
- V. A note on exceptional groups and Reidemeister torsion
Hezenci F., SÖZEN Y.
JOURNAL OF MATHEMATICAL PHYSICS, cilt.59, sa.8, 2018 (SCI-Expanded)
- VI. REIDEMEISTER TORSION AND ORIENTABLE PUNCTURED SURFACES
Dirican E., SÖZEN Y.
JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, cilt.55, sa.4, ss.1005-1018, 2018 (SCI-Expanded)
- VII. Connected sum of orientable surfaces and Reidemeister torsion
Dirican E., SÖZEN Y.
PURE AND APPLIED MATHEMATICS QUARTERLY, cilt.12, sa.4, ss.517-541, 2016 (SCI-Expanded)
- VIII. A note on Reidemeister torsion and pleated surfaces
SÖZEN Y.
JOURNAL OF KNOT THEORY AND ITS RAMIFICATIONS, cilt.23, sa.3, 2014 (SCI-Expanded)
- IX. Structure of fractional spaces generated by second order difference operators

- Ashyralyev A., Nalbant N., Sozen Y.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, cilt.351, sa.2, ss.713-731, 2014 (SCI-Expanded)
- X. **The structure of fractional spaces generated by a two-dimensional elliptic differential operator and its applications**
Ashyralyev A., Akturk S., Sozen Y.
BOUNDARY VALUE PROBLEMS, 2014 (SCI-Expanded)
- XI. **Finite Difference Method for the Reverse Parabolic Problem**
ASHYRALYYEV C., DURAL A., Sozen Y.
ABSTRACT AND APPLIED ANALYSIS, 2012 (SCI-Expanded)
- XII. **SYMPLECTIC CHAIN COMPLEX AND REIDEMEISTER TORSION OF COMPACT MANIFOLDS**
Sozen Y.
MATHEMATICA SCANDINAVICA, cilt.111, sa.1, ss.65-91, 2012 (SCI-Expanded)
- XIII. **Reidemeister torsion of product manifolds and its applications to quantum entanglement**
Ozel C., Sozen Y.
BALKAN JOURNAL OF GEOMETRY AND ITS APPLICATIONS, cilt.17, sa.2, ss.66-76, 2012 (SCI-Expanded)
- XIV. **On a volume element of a Hitchin component**
Sozen Y.
FUNDAMENTA MATHEMATICAE, cilt.217, sa.3, ss.249-264, 2012 (SCI-Expanded)
- XV. **A note on the parabolic equation with an arbitrary parameter at the derivative**
Ashyralyev A., Sozen Y.
MATHEMATICAL AND COMPUTER MODELLING, cilt.54, ss.2565-2572, 2011 (SCI-Expanded)
- XVI. **A note on reidemeister torsion and period matrix of Riemann surfaces**
Sozen Y.
MATHEMATICA SLOVACA, cilt.61, sa.1, ss.29-38, 2011 (SCI-Expanded)
- XVII. **Well-posedness of parabolic differential and difference equations**
Ashyralyev A., Sozen Y.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.60, sa.3, ss.792-802, 2010 (SCI-Expanded)
- XVIII. **ON QUASI-DIAGONAL ISOMORPHISMS OF INFINITE AND FINITE TYPE DRAGILEV KOTHE SPACES**
Sozen Y.
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, cilt.40, sa.5, ss.295-314, 2009 (SCI-Expanded)
- XIX. **On Fubini-Study form and Reidemeister torsion**
Sozen Y.
TOPOLOGY AND ITS APPLICATIONS, cilt.156, sa.5, ss.951-955, 2009 (SCI-Expanded)
- XX. **Ideal cell-decompositions for a hyperbolic surface and Euler characteristic**
Sozen Y.
JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, cilt.45, sa.4, ss.965-976, 2008 (SCI-Expanded)
- XXI. **Reidemeister torsion of a symplectic complex**
Sozen Y.
OSAKA JOURNAL OF MATHEMATICS, cilt.45, sa.1, ss.1-39, 2008 (SCI-Expanded)
- XXII. **A note on the parabolic differential and difference equations**
ASHYRALYYEV A., Sozen Y., SOBOLEVSKII P. E.
ABSTRACT AND APPLIED ANALYSIS, 2007 (SCI-Expanded)
- XXIII. **Variation of the Liouville measure of a hyperbolic surface**
BONAHON F., Sozen Y.
ERGODIC THEORY AND DYNAMICAL SYSTEMS, cilt.23, ss.729-758, 2003 (SCI-Expanded)
- XXIV. **The Weil-Petersson and Thurston symplectic forms**
Sozen Y., BONAHON F.
DUKE MATHEMATICAL JOURNAL, cilt.108, sa.3, ss.581-597, 2001 (SCI-Expanded)

Dünger Dergilerde Yayınlanan Makaleler

- I. A remark on Schottky representations and Reidemeister torsion Шоттки көрсетілімі мен Рейдемайстер бұралуы жайында ескерту Замечание о представлениях Шоттки и кручении Рейдемайстера
Hezenci F, SÖZEN Y.
Bulletin of the Karaganda University. Mathematics Series, cilt.109, sa.1, ss.81-93, 2023 (Scopus)
- II. Reidemeister-Franz torsion of compact orientable surfaces via pants decomposition Erdal E., SÖZEN Y.
Balkan Journal of Geometry and its Applications, cilt.27, sa.2, ss.37-49, 2022 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. A Note on Parabolic Difference Equations on Manifold
Ashyralyev A., Hezenci F., SÖZEN Y.
5th International Conference of Mathematical Sciences, ICMS 2021, İstanbul, Türkiye, 23 - 27 Haziran 2021, cilt.2483
- II. A Note on Hyperbolic Differential Equations on Manifold
Ashyralyev A., SÖZEN Y., Hezenci F.
5th International Conference on Analysis and Applied Mathematics (ICAAM), Mersin, Türkiye, 23 - 30 Eylül 2020, cilt.2325
- III. A Note on Parabolic Differential Equations on Manifold
Ashyralyev A., SÖZEN Y., Hezenci F.
4th International Conference of Mathematical Sciences (ICMS), ELECTR NETWORK, 17 - 21 Haziran 2020, cilt.2334
- IV. Reidemeister torsion of Anasov representations
Jafar H. D., SÖZEN Y.
International Conference on Advancements in Mathematical Sciences (AMS), Antalya, Türkiye, 5 - 07 Kasım 2015, cilt.1676
- V. Reidemeister torsion of some surfaces
Dirican E., SÖZEN Y.
International Conference on Advancements in Mathematical Sciences (AMS), Antalya, Türkiye, 5 - 07 Kasım 2015, cilt.1676
- VI. Finite Difference Method for The Reverse Parabolic Problem with Neumann Condition
ASHYRALYYEV C., DURAL A., Sozen Y.
1st International Conference on Analysis and Applied Mathematics (ICAAM), Gümüşhane, Türkiye, 18 - 21 Ekim 2012, cilt.1470, ss.102-105
- VII. Reidemeister Torsion of Hitchin Representations of $PSp(2n)(\mathbb{R})$
Sozen Y.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Yunanistan, 19 - 25 Eylül 2012, cilt.1479, ss.570-573
- VIII. Positivity of Two-Dimensional Elliptic Differential Operators in Holder Spaces
Ashyralyev A., Akturk S., Sozen Y.
1st International Conference on Analysis and Applied Mathematics (ICAAM), Gümüşhane, Türkiye, 18 - 21 Ekim 2012, cilt.1470, ss.77-79
- IX. The Positivity of Differential Operator with Nonlocal Boundary Conditions
Nalbant N., Sozen Y.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Yunanistan, 19 - 25 Eylül 2012, cilt.1479, ss.578-581
- X. The Structure of Fractional Spaces Generated by the Difference Operator on the Half Plane
Akturk S., Sozen Y.

International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Yunanistan, 19 - 25 Eylül 2012, cilt.1479, ss.611-614

XI. C-Symplectic Complex and Reidemeister Torsion

Sozen Y.

1st International Conference on Analysis and Applied Mathematics (ICAAM), Gümüşhane, Türkiye, 18 - 21 Ekim 2012, cilt.1470, ss.262-265

XII. Positivity of Two-Dimensional Elliptic Differential Operators with Nonlocal Conditions

Ashyralyev A., Kaplan S., Sozen Y.

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Halkidiki, Yunanistan, 19 - 25 Eylül 2011, cilt.1389

XIII. A NOTE ON SYMPLECTIC CHAIN COMPLEX

Sozen Y.

International Conference on Mathematical Sciences, Bolu, Türkiye, 23 - 27 Kasım 2010, cilt.1309, ss.870-883

Desteklenen Projeler

SÖZEN Y., Yükseköğretim Kurumları Destekli Proje, Anasov Temsilleri ve Reidemeister Torsyon, 2015 - 2015

SÖZEN Y., Yükseköğretim Kurumları Destekli Proje, Klasik ve kuantum hiperbolik geometry ve topoloji, 2015 - 2015

KADILAR C., SÖZEN Y., KARASOY D., Yükseköğretim Kurumları Destekli Proje, Fen Fakültesi Kariyer Günleri ve Bilim Şenliği İstatistik, Matematik ve Aktüerya Projeleri, 2015 - 2015

SÖZEN Y., TÜBİTAK Projesi, Hitchin komponentin üçgen ve kesme degişmezlerinde Atiyah Bott Goldman simplektik biçimi, 2014 - 2014

SÖZEN Y., TÜBİTAK Projesi, Reidemeister Torsion Symplectic Chain Complexes and Applications to 3 Manifolds, 2012 - 2013

Metrikler

Yayın: 39

Atıf (WoS): 192

Atıf (Scopus): 162

H-İndeks (WoS): 9

H-İndeks (Scopus): 8

Akademi Dışı Deneyim

Fatih Üniversitesi Matematik Bölümü

Fatih Üniversitesi Matematik Bölümü

Rowan Üniversitesi, ABD, Matematik Bölümü

Connecticut Üniversitesi, ABD, Matematik Bölümü

Georgia Üniversitesi, ABD, Matematik Bölümü

Güney Kalifornia Üniversitesi Matematik Bölümü

Orta Doğu Teknik Üniversitesi Matematik Bölümü