

CURRICULUM VITAE

Yaşar Sözen

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Education

Degree	Area	University	Year
BSc	Mathematics-Dept. of Art & Sci.	Middle East Technical University, Ankara, Turkey	1993
MS	Mathematics-Dept. of Art & Sci.	Middle East Technical University, Ankara, Turkey Thesis: Characterization of Quasidiagonal Isomorphisms Between Some Types of Kohte Spaces Tez Danışmanı: Prof. Dr. MEHMET ZAFER NURLU	1996
PhD	Mathematics	University of Southern California, Los Angeles, USA Thesis Title: The Weil-Petersson and Thurston Symplectic Forms Thesis Advisor: Prof. Dr. FRANCIS BONAHO	2000

Experience

Teaching Assistant	Middle East Technical University, Ankara, Turkey	1993-1996
Teaching Assistant	University of Southern California, CA, USA	1996-2000
Visiting Assistant Professor	University of Georgia, Athens, GA, USA	2000-2001
PostDoctoral Fellow	University of Connecticut, Storrs, CT, USA	2001-2004
Visiting Assistant Professor	Rowan University, Glassboro, NJ, USA	2004-2005
Associate Professor Dr.	Hacettepe University, Ankara, Turkey	2013-2014
Professor Dr.	Hacettepe University, Ankara, Turkey	2014-
Zentralblatt MATH Reviewer		2008-
MathScinet Reviewer		2019-
ERASMUS Math Coordinator	Hacettepe University, Ankara, Turkey	2013-2014

Research Interests: Topology/Geometry, Teichmüller Space, Thurston Symplectic Form, Hitchin Components, Symplectic Structures on Hitchin Components

Publications

1. Bonahon Francis, Sozen Yasar (2001). The Weil Petersson and Thurston symplectic forms. *Duke Mathematical Journal*, 108, 581-597
2. Bonahon Francis, Sozen Yasar (2003). Variation of the Liouville measure of a hyperbolic surface. *Ergodic Theory And Dynamical Systems*, 23, 759-770.
3. Ashyralyev Allaberen, Sozen Yasar, Sobolevskii E. Pavel (2007). A note on the parabolic differential and difference equations. *Abstract and Applied Analysis*, 2007, 1-17.

4. Sozen Yasar (2008). Reidemeister torsion of a symplectic complex. *Osaka Journal Of Mathematics*, 45(1), 1-39.
5. Sozen Yasar (2009). On Fubini Study form and Reidemeister torsion. *Topology And Its Applications*, 156, 951-955.
6. Sozen Yasar (2009). On quasi diagonal isomorphisms of infinite and finitetype Dragilev Köthe spaces. *Indian Journal Of Pure & Applied Physics*, 40(5), 295-314.
7. Ashyralyev Allaberen, Dural Ayfer, Sozen Yasar (2009). Multipoint nonlocal boundary value problems for reverse parabolic equations well posedness. *Vestnik Odessa Natl*, 13, 1-12.
8. Ashyralyev Allaberen, Dural Ayfer, Sozen Yasar (2009). Well posedness of the Rothe difference scheme for reverse parabolic equations. *Iranian J. of Optimization*, 1(2-3), 1-25.
9. Ashyralyev Allaberen, Sozen Yasar (2010). Well Posedness of parabolic differential and difference Equations. *Computers & Mathematics With Applications*, 60(60), 792-802.
10. Sozen Yasar (2011). Reidemeister torsion and period matrix of Riemann surfaces. *Mathematics Slovaca*, 61(61), 29-38.
11. Ashyralyev Allaberen, Sozen Yasar (2011). A note on the parabolic equation with an arbitrary parameter at the derivative. *Mathematical And Computer Modelling*, 54(11-12), 2565-2572.
12. Ashyralyev Allaberen, Dural Ayfer, Sozen Yasar (2011). A note on the second order accuracy difference scheme for reverse parabolic equation. *International Journal of Mathematics and Computation*, 11(J11), 38-49.
13. Ashyralyev Charyyar, Dural Ayfer, Sozen Yasar (2012). Finite Difference Method for the Reverse Parabolic Problem. *Abstract and Applied Analysis*, 2012, 1-17., Doi: 10.1155/2012/294154
14. Sozen Yasar (2012). Symplectic Chain Complex and Reidemeister torsion of compact manifolds. *MATHEMATICA SCANDINAVICA*, 111, 65-91.
15. Ashyralyev Allaberen, Dural Ayfer, Sozen Yasar (2012). On well posedness of the second order accuracy difference scheme for reverse parabolic equations. *Malaysian Journal of Mathematical Sciences*, 6, 91-109.
16. Ozel Cenap, Sozen Yasar (2012). Reidemeister torsion of product manifolds and quantum entanglement of pure states with Schmidt rank. *Balkan Journal of Geometry and Its Applications*, 17(12)
17. Sozen Yasar (2012). On a volume element of Hitchin component. *Fundamenta Mathematicae*, 217, 249-264.
18. Ashyralyev Allaberen, Akturk Sema, Sozen Yasar (2014). The structure of fractional spaces generated by a two dimensional elliptic differential operator and its applications. *Boundary Value Problems*, 2014(1), 3, Doi: 10.1186/1687-2770-2014-3
19. Ashyralyev Allaberen, Nese Nalbant, Sozen Yasar (2014). Structure of fractional spaces generated by second order difference operators. *Journal of the Franklin Institute*, 351(2), 713-731., Doi: 10.1016/j.jfranklin.2013.07.009
20. Sozen Yasar (2014). A note on Reidemeister torsion and pleated surfaces. *Journal of Knot Theory and Its Ramifications*, 23(03), 1450015, Doi: 10.1142/S0218216514500151
21. Dirican Esmâ, Sozen Yasar (2016). Connected sum of orientable surfaces and Reidemeister torsion. *Pure and Applied Mathematics Quarterly*, 12(4), 517-541., Doi: 10.4310/PAMQ.2016.v12.n4.a4
22. Hezenci Fatih, Sozen Yasar (2018). A note on exceptional groups and Reidemeister torsion. *JOURNAL OF MATHEMATICAL PHYSICS*, 59(8), 817041-8170416., Doi: 10.1063/1.5021318
23. Dirican Esmâ, Sozen Yasar (2018). Reidemeister Torsion And Orientable Punctured Surfaces. *Journal Of The Korean Mathematical Society*, 55(4), 1005-1018., Doi: 10.4134/JKMS.j170595

Proceedings

1. Ashyralyev Allaberen, Sozen Yasar (2007). On well posedness of parabolic differential and difference equations. *FURTHER PROGRESS IN ANALYSIS Proceedings of the 6th International ISAAC Congress Ankara, Turkey*
2. Sozen Yasar (2010). A Note on Symplectic Chain Complex. *International Conference on Mathematical Sciences Location: Abant Izzet Baysal Univ, Bolu, TURKEY Date: NOV 23-27, 2010, 1309, 870-883.*

3. Nalbant Nese, Sozen Yasar (2012). The positivity of differential operator with nonlocal boundary conditions. International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), 1479, 578-581., Doi: 10.1063/1.4756198
4. Aktürk Sema, Sozen Yasar (2012). The structure of fractional spaces generated by the difference operator on the half plane. International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), 1479(614), 611, Doi: 10.1063/1.4756206
5. Sozen Yasar (2012). C-symplectic complex and Reidemeister torsion. 1st International Conference on Analysis and Applied Mathematics (ICAAM) Location: Gumushane, TURKEY Date: OCT 18-21, 2012, 1470, 262-265., Doi: 10.1063/1.4747691
6. Ashyralyev Charyyar, Dural Ayfer, Sozen Yasar (2012). Finite difference method for the reverse parabolic problem with Neumann condition. 1st International Conference on Analysis and Applied Mathematics (ICAAM) Location: Gumushane, TURKEY Date: OCT 18-21, 2012, 1470, 102-105., Doi: 10.1063/1.4747650
7. Ashyralyev Allaberen, Akturk Sema, Sozen Yasar (2012). Positivity of two dimensional elliptic differential operators in Holder spaces. 1st International Conference on Analysis and Applied Mathematics (ICAAM) Location: Gumushane, TURKEY Date: OCT 18-21, 2012, 1470, 77-79., Doi: 10.1063/1.4747643
8. Jafar Dh Haidar, Sozen Yasar (2015). Reidemeister torsion of Anasov representations. International Conference on Advancements in Mathematical Sciences, 1676(2015), 200601-200604.
9. Dirican Esmâ, Sozen Yasar (2015). Reidemeister torsion of some surfaces. International Conference on Advancements in Mathematical Sciences, 1676(2015), 200061-200064.
10. Sozen Yasar, Dirican Esmâ (2016). Prime Decomposition of 3 Manifolds and Reidemeister Torsion. 14th International Geometry Symposium 25-28 May 2016, 107-107.
11. Dirican Esmâ, Sozen Yasar (2016). On a Novel Formula for Reidemeister Torsion of Orientable g n b Riemann Surfaces. 14th International Geometry Symposium 25-28 May 2016, 106-106.
12. Zeybek Hatice, Sozen Yasar (2016). A Note On Reidemeister Torsion of G-Anosov Representations. 14th International Geometry Symposium 25-28 May 2016, 108-108.
13. Hezenci Fatih, Sozen Yasar (2017). Representation Varieties of Free or Surface Group and Reidemeister Torsion. International Conference on Mathematics and Mathematics Education(ICMME-2017), Harran University, Şanlıurfa, 11-13 May 2017, 791-792.
14. Dirican Esmâ, Zeybek Hatice, Sozen Yasar (2017). Hard Lefschetz Theorem and Reidemeister Torsion of 3-manifolds. International Conference on Mathematics and Mathematics Education(ICMME-2017), Harran University, Şanlıurfa, 11-13 May 2017, 711-712.
15. Hezenci Fatih, Sozen Yasar (2017). Representation Varieties of Free or Surface Group and Reidemeister Torsion. International Conference on Mathematics and Mathematics Education (ICMME-2017)
16. Dirican Esmâ, Sozen Yasar (2017). Homological Algebra Techniques in Computation of R-Torsion. Antalya Algebra Days XVII in 2017
17. Dirican Esmâ, Sozen Yasar (2017). Reidemeister Torsion of Compact 3-manifolds with Boundary finitely many closed surfaces. 15th International Geometry Symposium Amasya University, Amasya, Turkey, 3-6 July 2017, 170-170.
18. Zeybek Hatice, Sozen Yasar (2017). A Note on Representation Varieties of Kähler Manifolds and Reidemeister Torsion. 15th International Geometry Symposium Amasya University, Amasya, Turkey, July 3-6 , 2017, 109-110.
19. Dirican Esmâ, Sozen Yasar (2017). Reidemeister Torsion of Compact 3-manifolds with Boundary finitely many closed surfaces. 15th International Geometry Symposium Amasya University, Amasya, Turkey
20. Dirican Esmâ, Zeybek Hatice, Sozen Yaşar (2017). On Some Volume Elements of Anderson's Moduli Space. 15th International Geometry Symposium Amasya University, Amasya, Turkey, 3-6 July 2017, 106-107.
21. Dirican Esmâ, Sozen Yasar (2018). Reidemeister Torsion of Orientable Punctured Surfaces. 16 th Geometry Symposium, 41-41.
22. Hezenci Fatih, Sozen Yasar (2019). Representation Varieties of 3-Manifolds and Reidemeister Torsion. 17th International Geometry Symposium June 19-22, 2019 Erzincan Binali Yildirim University, Erzincan-TURKEY

Thesis Supervised

1. DİRİCAN ESMA, (2015). Reidemeister torsiyon ve yönlendirilmiş yüzeylerin pantolon parçalanışı
2. NALBANT NEŞE, (2011). Structure of the fractional spaces generated by positive operators and app applications (Co-supervised with Prof. Dr. Allaberen ASHYRALYEV)
3. AKTÜRK SEMA, (2014). Fractional spaces generated by positive operators in the half-space (Co-supervised with Prof. Dr. Allaberen ASHYRALYEV)
4. NALBANT NEŞE, (2016). Fractional spaces generated by positive differential operators with the nonlocal condition (Co-supervised with Prof. Dr. Allaberen ASHYRALYEV)
5. HEZENCİ FATİH, (2019). Serbest veya Yüzey Grubunun Temsil Uzayları ve Reidemeister Torsiyon

Projects

1. Reidemeister Torsion Symplectic Chain Complexes and Applications to 3 Manifolds, TÜBİTAK PROJESİ, Yürütücü, , 24/04/2012 - 24/04/2013
2. Hitchin komponentin üçgen ve kesme değişmezlerinde Atiyah Bott Goldman simplektik biçimi, TÜBİTAK PROJESİ, Yürütücü, , 14/09/2014 - 28/09/2014
3. Reidemeister Torsiyon Ve Kahler Manifoldlara Uygulamaları, TÜBİTAK PROJESİ, Yürütücü, 01/03/2015 - 01/03/2017

Editor

1. BOUNDARY VALUE PROBLEMS Recent Advances in Partial Differential Equations and Their Applications 1 MARCH 2015, Dergi, Konuk Editör, BOUNDARY VALUE PROBLEMS
2. Journal of Inequalities and Applications Special Issue on Recent Trends on Inequalities and its Applications, Dergi, Konuk Editör, Springer-03.10.2013
3. Fixed Point Theory and Applications Special Issue on Recent Trends on Fixed Point Theory and its Applications, Dergi, Konuk Editör, Springer-03.10.2013
4. Turkish Journal of Mathematics, 2015-2016

Courses

1. Cebirsel Topolojiye Giriş (2018-2019, Bahar)
2. MAT 124 (2018-2019, Bahar)
3. Hiperbolik Geometriye Giriş (2018-2019, Sonbahar)
4. MAT 123 (2018-2019, Sonbahar)