

## Prof. MURAT ŞAT

### Personal Information

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**Address:** Erzincan Binali Yıldırım Üniversitesi Yalnızbağ Yerleşkesi Fen Edebiyat Fakültesi Matematik Bölümü ERZİNCAN-TÜRKİYE

### Education Information

Doctorate, Fırat University, Faculty Of Arts And Sciences, Matematik Anabilim Dalı, Turkey 2008 - 2012

Postgraduate, Atatürk University, Fen-Edebiyat Fakültesi, Matematik, Analiz Ve Fonksiyonlar Teorisi, Turkey 2005 - 2007

Undergraduate, Cumhuriyet Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, Turkey 1999 - 2003

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Singüler Dirac Operatörünün Spektral Teorisi, Fırat Üniversitesi, Fen-Bilimleri Enstitüsü, Matematik, 2012

Postgraduate, Univalent Fonksiyonların Ters Katsayıları, Atatürk Üniversitesi, Fen-Bilimleri Enstitüsü, Matematik, Analiz Ve Fonksiyonlar Teorisi, 2007

### Research Areas

Mathematics, Functional Analysis, General Mathematics, Functions of a Complex Variable, Operators, Special Functions, Potential Theory, Natural Sciences

### Academic Titles / Tasks

Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2019 - Continues

Associate Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2014 - 2019

Assistant Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2012 - 2014

Research Assistant, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2006 - 2012

Research Assistant, Atatürk University, Erzincan, Fen-Edebiyat Fakültesi, Matematik, 2005 - 2006

### Academic and Administrative Experience

Dean, Erzincan Binali Yıldırım University, Spor Bilimleri Fakültesi, 2021 - Continues

Fakülte Yönetim Kurulu Üyesi, Erzincan Binali Yıldırım University, Güzel Sanatlar Fakültesi, 2020 - Continues

Fakülte Kurulu Üyesi, Erzincan Binali Yıldırım University, Güzel Sanatlar Fakültesi, 2020 - Continues  
Erzincan Binali Yıldırım Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 2019 - Continues  
Member of the Senate, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik, 2019 - Continues  
Erzincan Binali Yıldırım Üniversitesi, Tercan Meslek Yüksekokulu, 2018 - Continues  
Manager of Research and Application Center, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2020 - 2023  
Deputy Head of Department, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2017 - 2020  
Erasmus Coordinator, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2005 - 2006

## Courses

Analiz, Undergraduate, 2021 - 2022

## Advising Theses

ŞAT M., Sturm-Liouville Problemi için düzenlenmiştir izin hesabı ve integral denklemleri metodu ile açılım teoreminin ispatı, Postgraduate, S.DEMİRKALE(Student), 2016

ŞAT M., Hipergeometrik Fonksiyonların Kuruluşu, Tek ve Çift Serili Hipergeometrik Fonksiyonların Kullanım Yeri ve Örnekleri, Postgraduate, E.BİLGİN(Student), 2015

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, Erzincan Binali Yıldırım University, February, 2020  
Appointment to Academic Staff-Assistant Professorship, Atama, Erzincan Binali Yıldırım Üniversitesi, August, 2019  
Post Graduate, Tez savunma jüriliği, Cumhuriyet Üniversitesi, August, 2019  
Post Graduate, Tez savunma jüriliği, Cumhuriyet Üniversitesi, April, 2019  
Appointment to Academic Staff-Assistant Professorship, Yeniden Atama, Erzincan Binali Yıldırım Üniversitesi, December, 2018  
Appointment to Academic Staff-Assistant Professorship, Yeniden Atama, Erzincan Binali Yıldırım Üniversitesi, December, 2018  
Post Graduate, Tez savunma jüriliği, Adıyaman Üniversitesi, September, 2018  
Appointment to Academic Staff-Assistant Professorship, Atama, Cumhuriyet Üniversitesi, July, 2018  
Doctorate, Doktora Tez sınav jürisi, Kocaeli Üniversitesi, June, 2018  
Appointment to Academic Staff-Assistant Professorship, Yeniden Atama, Erzincan Üniversitesi, April, 2018  
Competence In Art, Doktora Yeterlilik Sınavı Jüri Üyeliği, Erzincan Üniversitesi, June, 2017  
Appointment to Academic Staff-Assistant Professorship, Bilimsel Jüri Değerlendirilmesi, Erzincan Üniversitesi, December, 2016  
Post Graduate, Tez Savunma Jürisi, Cumhuriyet Üniversitesi, March, 2016  
Appointment to Academic Staff-Assistant Professorship, Bilimsel Jüri Değerlendirilmesi, Cumhuriyet Üniversitesi, January, 2016  
Doctorate, Tez Savunma Jürisi, Gaziosmanpaşa Üniversitesi, September, 2015  
Appointment to Academic Staff-Assistant Professorship, Bilimsel Jüri Değerlendirilmesi, Bitlis Eren Üniversitesi, August, 2015  
Doctorate, Tez Savunma Jürisi, Fırat Üniversitesi, May, 2015  
Competence In Art, Doktora Yeterlilik Sınavı, Fırat Üniversitesi, May, 2015  
Appointment to Academic Staff-Assistant Professorship, Bilimsel Jüri Değerlendirilmesi, Erzincan Üniversitesi, April, 2015  
Appointment to Academic Staff-Assistant Professorship, Bilimsel Jüri Değerlendirilmesi, Cumhuriyet Üniversitesi, March, 2015

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

- I. **Inverse spectral problem for differential pencils with a frozen argument**  
Hu Y., ŞAT M.  
Journal of Inverse and Ill-Posed Problems, vol.32, no.5, pp.985-999, 2024 (SCI-Expanded)
- II. **Trace Formulae for Second Order Differential Pencils with a frozen argument**  
Hu Y., Şat M.  
MDPI, vol.11, no.3996, pp.1-7, 2023 (SCI-Expanded)
- III. **Inverse nodal problem for the Sturm-Liouville operator with a weight**  
Zhang R., Şat M., Yang C.  
Applied Mathematics-A Journal Of Chinese Universities Series B, vol.25, no.2, pp.193-202, 2020 (SCI-Expanded)
- IV. **A partial inverse problem for the Sturm-Liouville operator on quantum graphs with a loop**  
Guan S., Yang C., Sat M.  
Acta Mathematica Scientia, vol.2020, pp.1-11, 2020 (SCI-Expanded)
- V. **Inverse resonance problems with the discontinuous conditions**  
Zhang R., Sat M., Yang C.  
Applied Mathematics-A Journal Of Chinese Universities Series B, vol.2020, pp.1-17, 2020 (SCI-Expanded)
- VI. **Inverse nodal problems for integro-differential operators with a constant delay**  
Sat M., Shieh C. T.  
JOURNAL OF INVERSE AND ILL-POSED PROBLEMS, vol.27, pp.501-509, 2019 (SCI-Expanded)
- VII. **Inverse problems for sturm-liouville operators with boundary conditions depending on a spectral parameter**  
ŞAT M.  
Electronic Journal of Differential Equations, vol.2017, 2017 (SCI-Expanded)
- VIII. **On the half inverse spectral problem for an integro-differential operator**  
Buterin S. A., Sat M.  
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.25, no.10, pp.1508-1518, 2017 (SCI-Expanded)
- IX. **A UNIQUENESS THEOREM ON THE INVERSE PROBLEM FOR THE DIRAC OPERATOR**  
Wang Y. P., Sat M.  
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2016 (SCI-Expanded)
- X. **Inverse problem for the quadratic pencil of the Sturm-Liouville equations**  
Panakhov E. S., Tas K., Sat M.  
AIP ADVANCES, vol.1648, pp.8-15, 2015 (SCI-Expanded)
- XI. **Half Inverse Problem for the Sturm-Liouville Operator with Coulomb potential**  
Sat M.  
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.8, no.2, pp.501-504, 2014 (SCI-Expanded)
- XII. **Spectral problem for diffusion operator**  
Sat M., Panakhov E. S.  
APPLICABLE ANALYSIS, vol.93, pp.1178-1186, 2013 (SCI-Expanded)
- XIII. **Inverse problem for the interior spectral data of the equation of hydrogen atom**  
Panakhov E. S., Sat M.  
UKRAINIAN MATHEMATICAL JOURNAL, vol.64, no.11, pp.1716-1726, 2013 (SCI-Expanded)
- XIV. **Reconstruction of potential function for Sturm-Liouville operator with Coulomb potential**  
Panakhov E. S., Sat M.  
BOUNDARY VALUE PROBLEMS, 2013 (SCI-Expanded)
- XV. **A Uniqueness Theorem for Bessel Operator from Interior Spectral Data**  
Sat M., Panakhov E. S.  
ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)
- XVI. **On the Determination of the Singular Sturm-Liouville Operator from Two Spectra**  
Panakhov E. S., SAT M.  
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.84, no.1, pp.1-11, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Uniqueness and Reconstruction of the Double Loop Graph 双环图上的唯一性及其重构**  
Guan S. Y., Yang C. F., ŞAT M.  
Acta Mathematica Sinica, Chinese Series, vol.64, no.6, pp.991-998, 2021 (Scopus)
- II. **Interior inverse problem for Sturm-Liouville operator with eigenparameter dependent boundary conditions**  
Sat M.  
Bulletin of the Transilvania University of Braşov – Series III Mathematics, Informatics, Physics, vol.10, no.59, pp.129-143, 2017 (Scopus)
- III. **Wellposedness of the inverse problem for Dirac operator**  
Sat M., Panakhov E. S., Tas K.  
Chinese Journal of Mathematics, vol.2013, pp.1-10, 2013 (Scopus)
- IV. **A hochstadt-lieberman theorem for integro-differential operator**  
Sat M., Yilmaz E.  
International Journal of Pure and Applied mathematics, vol.88, pp.413-423, 2013 (Peer-Reviewed Journal)
- V. **On an inverse spectral problem for an integro-differential operator**  
Panakhov E. S., Sat M.  
World Applied Sciences Journal, vol.18, pp.1571-1575, 2012 (Scopus)
- VI. **Inverse nodal problem for sturm-liouville operators with coulomb potential**  
Sat M., Panakhov E. S.  
International Journal of Pure and Applied mathematics, vol.80, pp.173-180, 2012 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **An inverse spectral problem for integro differential operators with frozen argument**  
SAT M.  
4nd International Conference on Computational Mathematics and Engineering Sciences, Antalya, Turkey, 20 - 22 April 2019, pp.34
- II. **"On the inverse spectral problem for Sturm-Liouville operator having special singularity**  
SAT M., Penahov E., KAYALAR M.  
The 6th International Conference on Control and Optimization with Industrial Applications, Baku, Azerbaijan, 11 - 13 July 2018, pp.1-8
- III. **Inverse spectral problem for Dirac operators with frozen argument**  
SAT M.  
3nd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkct), 4 - 06 May 2018, pp.20
- IV. **The calculation of the regularization trace of the Schrödinger equation with energy-dependent potential**  
SAT M., Cetin M.  
3nd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkct), 4 - 06 May 2018, pp.11
- V. **On the half inverse spectral problem for Dirac operator with an integral delay**  
SAT M.  
VI Congress of the Turkic World Mathematical Society, Astana, Kazakhstan, 2 - 05 October 2017, pp.15
- VI. **Inverse problem for Sturm-Liouville operator with eigenparameter dependent boundary conditions**  
Sat M.  
28th Crimean Autumn Mathematical School-Symposium, Crimean, Russia, 17 - 29 September 2017, pp.133
- VII. **Inverse problem for Sturm-Liouville operator with singularity**  
Sat M.

2nd International Conference on Computational Mathematics and Engineering Sciences, İstanbul, Turkey, 20 - 22 May 2017, pp.142

- VIII. **Inverse problem for diffusion operators on the finite interval**  
ŞAT M., Panakhov E. S.  
10th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), Narvik, Norway, 15 - 18 July 2014, vol.1637, pp.968-975
- IX. **A uniqueness theorem for singular Dirac operator**  
Panakhov E. S., Sat M.  
2 st International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 October 2013, pp.158
- X. **Half inverse problem for singular Dirac operator**  
Panakhov E. S., Sat M.  
The 12 th International Workshop on Dynamical Systems and Applications, Ankara, Turkey, 12 - 15 October 2013, pp.41
- XI. **A uniqueness theorem for singular for singular differential operator**  
Panakhov E. S., Sat M.  
The second international scientific conference actual problems of control theory, Bişkek, Kyrgyzstan, 24 - 28 September 2013, pp.87
- XII. **On the wellposedness problem for Dirac operator**  
Sat M., Panakhov E. S.  
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 2 - 05 July 2013, pp.329
- XIII. **On the inverse problem for singular Sturm-Liouville operators**  
Panakhov E. S., Sat M.  
1 st International Eurasian Conference on Mathematical Sciences and Applications, Piriştina, Kosova, 19 - 21 September 2012, pp.55
- XIV. **On the determination of the Diffusion operator from two spectra**  
Sat M., Panakhov E. S.  
Mathematical Analysis Differential Equations and Their Applications, Mersin, Turkey, 4 - 09 September 2012, pp.93
- XV. **Inverse problem for interior spectral data of the Hydrogen equation**  
Sat M., Panakhov E. S.  
The 11 th International Workshop on Dynamical Systems and Applications, Ankara, Turkey, 26 - 28 July 2012, pp.22
- XVI. **On the determination of the singular Sturm-Liouville operator from two spectra**  
Panakhov E. S., Sat M.  
International Conference on Computational and experimental Engineering and Sciences, Zonguldak, Turkey, 6 - 10 September 2011, pp.49
- XVII. **On the Inverse Problem For Singular Sturm-Liouville Operator**  
KAYALAR M., SAT M.  
The 4th Congress Of The Turkic WorldMathematical Society(TWMS), Baku, Azerbaijan, 1 - 03 July 2011, pp.225
- XVIII. **A Hochstadt-Lieberman Theorem For Singular Sturm-Liouville Operator**  
SAT M., KAYALAR M.  
A Hochstadt-Lieberman Theorem For Singular Sturm-Liouville Operator, Baku, Azerbaijan, 1 - 03 July 2011, pp.268
- XIX. **On the inverse problem for singular canonical Dirac operator**  
Panakhov E. S., Sat M.  
5. Ankara Matematik Günleri, Ankara, Turkey, 3 - 04 June 2010, pp.61

## Metrics

Citation (WoS): 39

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