

## Assoc. Prof. EBRU SOLAK

### Personal Information

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### Education Information

Doctorate, Bayerische Julius-Maximilians-Universitaet Würzburg, Germany 2004 - 2007

Postgraduate, Georg-August-Universitaet Göttingen, Germany 2000 - 2002

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, Turkey 1995 - 2000

### Foreign Languages

German, C1 Advanced

English, C1 Advanced

### Dissertations

Doctorate, Almost Completely Decomposable Groups of Type (1,2), Bayerische Julius-Maximilians-Universitaet Würzburg, 2007

Postgraduate, Wedderburn's Structure Theorem, Georg-August-Universitaet Göttingen, 2002

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, 2009 - 2018

Assistant Professor, Bahcesehir University, Faculty Of Arts And Sciences, Department Of Mathematics And Computer, 2008 - 2009

### Courses

Basic Linear Algebra, Undergraduate, 2020 - 2021

## Advising Theses

Solak E., About the decomposability of almost completely decomposable groups, Postgraduate, C.BUDAK(Student), 2020  
SOLAK E., KUZUCUOĞLU M., Monomial groups, Postgraduate, Ö.ALMAŞ(Student), 2017

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **REPRESENTATIONS OF FINITE POSETS OVER THE RING OF INTEGERS MODULO A PRIME POWER**  
Arnold D., Mader A., Mutzbauer O., SOLAK E.  
JOURNAL OF COMMUTATIVE ALGEBRA, vol.8, no.4, pp.461-491, 2016 (Journal Indexed in SCI)
- II. **Classification of a class of torsion-free abelian groups**  
SOLAK E.  
RENDICONTI DEL SEMINARIO MATEMATICO DELLA UNIVERSITA DI PADOVA, vol.135, pp.111-131, 2016 (Journal Indexed in SCI)
- III. **THE CLASS OF (2,2)-GROUPS WITH HOMOCYCLIC REGULATOR QUOTIENT OF EXPONENT  $p(3)$  HAS BOUNDED REPRESENTATION TYPE**  
Arnold D. M. , Mader A., Mutzbauer O., SOLAK E.  
JOURNAL OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.99, no.1, pp.12-29, 2015 (Journal Indexed in SCI)
- IV. **(1,4)-GROUPS WITH HOMOCYCLIC REGULATOR QUOTIENT OF EXPONENT  $p(3)$**   
Arnold D. M. , Mader A., Mutzbauer O., SOLAK E.  
COLLOQUIUM MATHEMATICUM, vol.138, no.1, pp.131-144, 2015 (Journal Indexed in SCI)
- V. **REPRESENTATIONS OF POSETS AND INDECOMPOSABLE TORSION-FREE ABELIAN GROUPS**  
Arnold D., Mader A., Mutzbauer O., SOLAK E.  
COMMUNICATIONS IN ALGEBRA, vol.42, no.3, pp.1287-1311, 2014 (Journal Indexed in SCI)
- VI. **The class of (1,3)-groups with homocyclic regulator quotient of exponent  $p(4)$  has bounded representation type**  
Arnold D. M. , Mader A., Mutzbauer O., SOLAK E.  
JOURNAL OF ALGEBRA, vol.400, pp.43-55, 2014 (Journal Indexed in SCI)
- VII. **Indecomposable (1,3)-Groups and a matrix problem**  
Arnold D. M. , Mader A., Mutzbauer O., SOLAK E.  
CZECHOSLOVAK MATHEMATICAL JOURNAL, vol.63, no.2, pp.307-355, 2013 (Journal Indexed in SCI)
- VIII. **Almost completely decomposable groups and unbounded representation type**  
Arnold D. M. , Mader A., Mutzbauer O., SOLAK E.  
JOURNAL OF ALGEBRA, vol.349, no.1, pp.50-62, 2012 (Journal Indexed in SCI)
- IX. **(1, 2)-Groups with  $p^3$ -regulator quotient**  
Mutzbauer O., Solak E.  
Journal of Algebra, vol.320, no.10, pp.3821-3831, 2008 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **The Class of (1,3) -Groups with a homocyclic regulator quotient of exponent  $p^5$  is of finite representation type**  
Arnold D., Mader A., Mutzbauer O., SOLAK E.  
Bulletin of the Hellenic Mathematical Society, vol.61, pp.55-72, 2017 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **The Class of (2, 3)-Groups with Homocyclic Regulator Quotient of Exponent  $p^2$**

SOLAK E.

in: Groups, Modules, and Model Theory - Surveys and Recent Developments, , Editor, Springer, pp.435-447, 2017

**II. A Remark-Krull-Schmidt Class of Torsion-Free Abelian Groups**

Arnold D., Mader A., Mutzbauer O., SOLAK E.

in: Groups, Modules, and Model Theory - Surveys and Recent Developments, , Editor, Springer, pp.41-68, 2017

**III. Wedderburn's Structure Theorem**

SOLAK E.

in: Miscellaneous Topics of Group Theory Mashhad Naples 2005 2008, Erfanian Ahmad , Russo Francesco, Editor, Aracne Editrice, pp.81-115, 2008

## Refereed Congress / Symposium Publications in Proceedings

**I. Classification of special classes of almostcompletely decomposable groups of nite rank**

SOLAK E.

New Pathways between Group Theory and Model Theory, 1 - 04 February 2016

**II. Tipi (1,3) olan hemen hemen ayrışan Gruplar**

SOLAK E.

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

**III. Tipi (1,3) olan hemen hemen ayrışan gruplar**

SOLAK E.

10.Ankara Matematik Günleri, Turkey, 11 - 12 June 2015

**IV. Decomposability of a Class of Almost completely decomposable Groups**

SOLAK E.

3.Cemal Koç Cebir Seminer Günleri, Turkey, 04 April 2015

**V. 1 2 groups for a regulator quotient of exponent p 4**

Solak E., Mutzbauer O.

Groups and model theory in honor of Rüdiger Göbel's 70th birthday, Mülheim, Germany, 30 May - 03 June 2011, vol.576, pp.269-285

**VI. Indecomposable (1,3)-Groups**

SOLAK E.

Groups and Model Theory, 30 May - 03 June 2011

**VII. Decomposability of (1,2)-Groups**

SOLAK E.

12..Antalya Cebir Günleri, 19 - 22 May 2009

**VIII. (1,2)-Groups**

SOLAK E.

Gruppen und Topologische Gruppen, 30 November - 01 December 2007

## Supported Projects

SOLAK E., Budak C., Project Supported by Higher Education Institutions, Classification of Almost Completely Decomposable Groups, 2018 - 2020

SOLAK E., Project Supported by Higher Education Institutions, Bazı Torsiyonsuz Değişmeli Grupların Ayrışımı, 2017 - 2017

SOLAK E., Project Supported by Higher Education Institutions, (2,2)-Groups, 2013 - 2015

SOLAK E., Project Supported by Higher Education Institutions, Bölüm Regülatörünün Kuvveti P4 Olan (1,2) Gruplar., 2011 - 2011

## **Scientific Refereeing**

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, August 2020

INTERNATIONAL JOURNAL OF GROUP THEORY, Journal Indexed in ESCI, September 2013

## **Citations**

Total Citations (WOS):28

h-index (WOS):4

## **Invited Talks**

Classification of special classes of almostcompletely decomposable groups of finite rank, Conference, New Pathways between Group Theory and Model Theory, Germany, February 2016

3.Cemal Koç Cebir Seminer Günleri, Seminar, Gebze Teknik Üniversitesi, Turkey, April 2015

## **Scholarships**

Frauenförderung HWP,Support of Women in Science, University, 2006 - 2007

Research Grant in Mathematics, Official Institutions of Foreign Countries, 2004 - 2006

DAAD-TEV yüksek lisans araştırma bursu, Official Institutions of Foreign Countries, 2000 - 2002