

## Report on Activities of Association for Turkish Women in Mathematics Since July 2022

The Association for Turkish Women in Mathematics has been established in June, 2012 with the aim to support women in mathematics, in social and scientific areas. The Association tries to create opportunities for woman mathematicians to facilitate the advancement of their careers by cooperating with similar associations like EWM.

In order to achieve this goal the association, tries to bring women mathematicians, graduate students together to share their research, experience and ideas by organizing Women and Science events, Workshops of Association for Turkish Women in Mathematics, Graduate Summer Schools, and Women and Maths events every year. The aim is to organize Women and Science events and Workshops in a different university in Turkey each year. The list of events organized between July 2022 and December 2024 are as follows:

**Fifth Graduate Summer School of Association for Turkish Women in Maths:** The fifth Graduate Summer School has been held between July 13-22, 2022 at METU Mathematics Department. The topics were Geometric Group Theory and Introduction to Applied Algebraic Topology. More than fifty students from different universities around Turkey have attended the summer school.

**Women and Science VIII :** The eight Women and Science event was held on October 21, 2022 hosted by Afyon Kocatepe University, in Afyonkarahisar, Turkey. The event consisted of two mathematics talks and a panel.

**Women and Mathematics: Geometric Topology** The fifth Women and Mathematics event with theme Geometric Topology was held on March 11, 2023 at METU, in Ankara, Turkey. The speakers were Ana Lecuona ( University of Glasgow), Sofia Lambropoulou( National Technical University, Greece ), Caterina Campagnolo ( Autonomous University of Madrid ), Tulin Altunoz ( Başkent University) and Elif Medetogulları ( TED University).

**8th Workshop of Association for Turkish Women in Maths:** The eight Workshop of Association for Turkish Women in Maths was held on April 27 and 28, 2023 as online . There were four invited talks on Algebraic Geometry, Finite fields and Differential and Difference Equations: Nuromur Hulya Arguz from University of Georgia titled “Tropical geometry and mirror symmetry”, Burcu Gulmez Temur from Atilim University titled “Permutation polynomials defined on finite fields”, Zeynep Kayar from Van Yuzuncu Yil University titled “Delta and nabla Levinson-Pachpatte type dynamical inequalities in time scales” and Billur Kaymakcalan from Cankaya University titled “Diamond-alpha Levinson-Pachpatte type dynamical inequalities”.

**Women in Math Day (May 12) Association for Turkish Women in Math Event:** ATWM had organized a meeting on May 13, 2023 as part of the Women’s Day in Mathematics May 12 activities. The event consists of a video of Dr. Amie Wilkinson’s 2018 Fields Medal Symposium on Maryam Mirzakhani’s work, followed by a talk given by Dr. Diana Thomas and an interview with her. The event was hosted by METU Mathematics Department.

**Sixth Graduate Summer School of Association for Turkish Women in Maths:** The sixth Graduate Summer School has been held between July 04- 13, 2023 at METU Mathematics Department. This year the topics were Theory of Ordinary Differential Equations and Commutative Algebra. Around forty students from different universities around Turkey have attended the summer school.

**Women and Science IX :** The ninth Women and Science event will be held on November 24, 2023 hosted by Hacettepe University Mathematics Department, in Ankara, Turkey. The event consisted of two mathematics talks, Philosophy of mathematics talk and a panel.

**Women and Mathematics: Algebraic and Arithmetic Geometry** The sixth Women and Mathematics event with theme Algebraic and Arithmetic Geometry was held on March 09, 2024 hosted by Galatasaray University Mathematics Department, in Istanbul, Turkey. The speakers were Giovanna Ilardi ( University of Naples), Türkü Özlüm Çelik ( Koç University ), Tülay Ayyıldız( Gebze Technical University ) and Büşra Karadeniz Şen ( Gebze Technical University).

**Anıtkabir, Atatürk's Mausoleum Visit:**

As part of the events of the 100th anniversary of our Republic, as the Association of Turkish Women in Mathematics, we made an official visit to Anıtkabir, Atatürk's Mausoleum on March 16, 2024.

**9th Workshop of Association for Turkish Women in Maths:** The ninth Workshop of Association for Turkish Women in Maths was between May 03-05, 2024 hosted by Izmir University of Economics, in Izmir/Turkey . There were four invited talks on Representation Theory, Functional and Complex Analysis and Applied Mathematics/Statistics. There were more than a hundred participants.

**Women in Math Day (May 12) Association for Turkish Women in Math Event:** ATWM Women in Math Day event was held on Thursday, May 16, 2024 at 15:40, at Middle East Technical University, Department of Mathematics, in Tosun Terzioğlu Seminar Room (M203). In our event, Pınar Aydoğan from Hacettepe University gave a talk titled "Turkish Women in the World of Mathematics". Afterwards, two short films were shown.

**Seventh Graduate Summer School of Association for Turkish Women in Maths:** The seventh Graduate Summer School has been held between June 25-July 05, 2024 at METU Mathematics Department. This year the topics were Numerical Analysis and Theory of Ordinary Differential Equations. There were more than fifty students in this summer school.

**Women and Science X :** The tenth Women and Science event has been held on November 29, 2024 hosted by Yozgat Bozok University Mathematics Department. This event consisted of two mathematics talks, a physics talk and a panel.

We have also planned **Tenth Workshop of Association for Turkish Women in Maths** which will take place during April 24-25, 2025 hosted by Marmara University, in Istanbul/Turkey . There are four invited talks on Geometry, Operator and Functional Theory, Commutative Algebra and Logic. Besides invited talks there will be sessions for short talks and poster presentations. All talks and posters are open to public. You may find more information in the web page of the event.

More details about all these events and available videos can be found in the webpage "<https://tkmd.org/?lang=en>".

Lastly, to my knowledge there is no other event or activity for woman mathematicians organized throughout Turkey.

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