



YEDİTEPE UNIVERSITY

MATHEMATICS DEPARTMENT SEMINARS

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## The solvability criterion for finite groups considering vanishing classes

Roghayeh Hafezieh (Gebze Technical University)

**Abstract:** For a finite group  $G$ , an element is called a vanishing element of  $G$  if it is a zero of an irreducible character of  $G$ ; otherwise, it is called a non-vanishing element. Moreover, the conjugacy class of an element is termed as a vanishing class if that element is a vanishing element. In this talk, we present a solvability criterion with respect to the set of vanishing class sizes.

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**Date:** 5 December 2025, Friday

**Time:** 13:00

**Place:** Yeditepe Math Seminar Room



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