



# HACETTEPE ÜNİVERSİTESİ

MATEMATİK BÖLÜMÜ



## GENEL SEMİNER



22 NİSAN 2026



15.00



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#### Numerical Semigroups and Surface Singularities

The aim of this talk is to create a new bridge between the theory of numerical semigroups and the theory of complex normal surface singularities, and to explain how one of the two theories might provide meaningful and enriching questions, ideas and simultaneously powerful tools to the other.

We consider a special case of numerical semigroups associated with weighted homogeneous surface singularities. We intend to convince the participants that this case is very interesting from different point of views. Eg. we show a solution to the Frobenius problem and give a formula for the Frobenius number and the genus of the semigroup, using methods of singularity theory. The talk is based on joint papers with A. Nemethi (Renyi Institute of Math., Hungary) and Zsolt Baja (PhD student, Babes-Bolyai University, Cluj).



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