



## NUMBER THEORY SESSION

# THE CORNER ELEMENT OF GENERALIZED NUMERICAL SEMIGROUPS.

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Thursday, February 08, 2024.

15h50 - 16h30

Online

### Abstract.

In this talk we present the concept of corner element of a generalized numerical semigroup (GNS), which extends in a sense the idea of conductor of a numerical semigroup to GNS. Also, we present properties of this new notion and its relations with existing invariants in the literature, we provide an algorithm to compute all the GNSs with fixed corner, and lower and upper bounds on the number of GNSs having a fixed corner element.

JOINT WORK WITH M. BERNARDINI AND W. TENÓRIO

**Keywords:** generalized numerical semigroup, genus, corner.

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\*Financial support: FAPEMIG and CNPq., Email: GUILHERMECT@UFU.BR