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Title: Irreducible proportionally modular numerical semigroups

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We study the minimal generating systems of the irreducible numerical semigroups that can be represented as the set of solutions to a Diophantine inequality of the form $ax \bmod b \leq cx$ with a , b and c positive integers. In particular we obtain a simple method to count all these numerical semigroups with a given Frobenius number.

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