

Speaker: Casey Donovan (Binghamton)

Title: Intersection Numbers and Minimal Subbases

Combinatorics Seminar,

Given a finite semigroup S , define $\Phi(S)$ to be the intersection of all maximal subsemigroups of S , also known as the Frattini subsemigroup of S . The intersection number of S is the minimum number of maximal subsemigroups whose intersection is $\Phi(S)$. I will speak about a particular example of a semigroup with an interesting intersection number. In this example, the intersection number is equivalent to the minimum size of a subbasis of the discrete topology on a finite set, which is known.

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