

Filters and Ideal Independence

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We show that the minimal cardinality of a maximal ideal independent family, denoted \mathfrak{s}_{mm} , is greater or equal the ultrafilter number, which in particular establishes the independence of \mathfrak{s}_{mm} and the independence number. Central to these studies are filters, naturally appearing in the context of ideal independent families.

(joint work with J. Cancino-Manriquez, C. Switzer)