

[Brouwer, A. E.](#); [Mills, C. F.](#); [Mills, W. H.](#); [Verbeek, A.](#)
Counting families of mutually intersecting sets. (English) Zbl 1267.05144
[Electron. J. Comb.](#) 20, No. 2, Research Paper P8, 8 p. (2013).

Summary: We show that the number of maximal intersecting families on a 9-set equals 423295099074735261880, that the number of independent sets of the Kneser graph $K(9, 4)$ equals

$$366996244568643864340,$$

and that the number of intersecting families on an 8-set and on a 9-set is

$$14704022144627161780744368338695925293142507520$$

and

$$125532424879405039143639827181122982679752727208$$
$$08010757809032705650591023015520462677475328$$

(roughly $1.255 \cdot 10^{91}$), respectively.

MSC:

[05C30](#) Enumeration in graph theory
[05C75](#) Structural characterization of families of graphs

Cited in **3** Documents

Keywords:

[maximal linked systems](#); [Kneser graph](#); [counting independent sets](#)

Full Text: [Link](#)