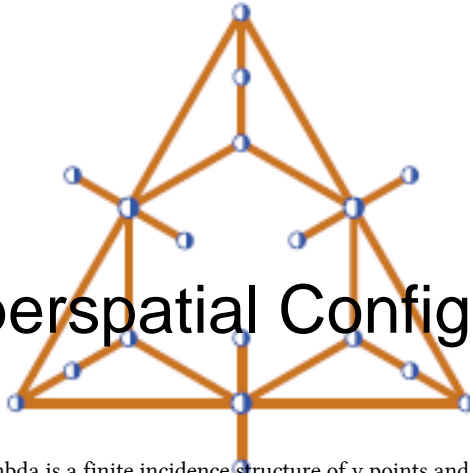


Bled'11 - 7th Slovenian International Conference on Graph Theory

Contribution ID : 101

On Hyperspatial Configurations



Content :

A $(v, k)_\lambda$ -configuration is a finite incidence structure of v points and v lines such that each line contains k points, through each point there are k lines, there are at most λ lines through two different points, and there are at most λ points in the intersection of two different lines.

A 1-configuration is just called configuration (or maybe combinatorial configuration).

A 2-configuration is also called spatial configuration.

For $\lambda > 2$ we choose the name hyperspatial configuration.

Modern research on spatial configurations started twenty years ago.

Here first results for $\lambda = 3$ (and $\lambda = 4$) will be presented, i.e. existence, enumeration, special properties, infinite series etc.

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