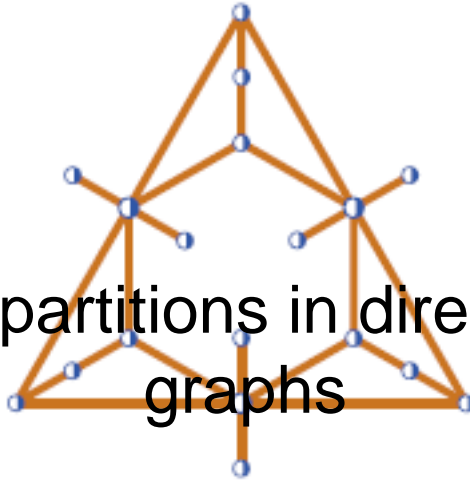


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Idomatic partitions in direct product graphs



Content :

Partition of $V(G)$ into sets which are independent and dominating is called an idomatic partition.

In this talk results concerning idomatic partitions of direct product of complete graphs will be presented. More precisely, such partitions are characterized up to the product of three complete graphs. For product of four (and more) complete graphs the study is done on idomatic partitions to sets of specific form, called the T_1 -sets. Idomatic partitions of $\times_{i=1}^t K_{n_i}$ into T_1 -sets are characterized for $t=4$ and the idea how to construct such a partition in the case of $t-1=p^k$, p is prime, will be presented.

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