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On the Domination of Block Design

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Let $v; k; \lambda$ be positive integers such that $v \geq k \geq 2$. Let X be a finite set of v elements, called points, and B be a family of k-subsets, called blocks. The pair $D = (X; B)$ is called a 2-$(v; k; \lambda)$ block design, or simply a 2-design, if every pair of distinct points are contained in exactly λ blocks. The incidence graph of block design D is defined by $G_D = (X \cup B; E)$ where $(x; B) \in E$ if and only if $x \in B$. In this talk we stat that recent results about the domination number of incidence graphs of block designs.