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*Designs and bent functions*

The connection between bent functions and difference sets (which give rise to designs) is well known. It is not so well known that the classical Boolean as well as vectorial bent functions can be also used to construct incidence structures using the concept of vanishing flats, as it has been introduced recently by S. Li, W. Meidl, A. Polujan, A. Pott, C. Riera and P. Stănică.

The results in this talk are based on W. Meidl, A. Polujan, A. Pott, *Linear codes and incidence structures of bent functions and their generalizations*, arXiv:2012.06866v1.