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Diameter Perfect Codes

Diameter perfect codes form a natural generalization for perfect codes. They are based on the code-anticode bound which generalizes the sphere-packing bound. The code-anticode bound was proved by Delsarte for distance-regular graphs and it holds for some other metrics too. In this talk we present a short introduction on the known results. We concentrate on new results for non-binary diameter perfect constant-weight codes and present a list of open problems.