Self-orthogonal and LCD subspace codes

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Abstract

In 2008, Kötter and Kschischang introduced subspace codes and propose their applications in error correction for random network coding. Self-orthogonal and LCD subspace codes were introduced recently. In this talk, we will give constructions of self-orthogonal and LCD subspace codes from mutually unbiased and quasi-unbiased weighing matrices, linked systems of symmetric designs and symmetric group divisible designs, and equitable partitions of association schemes and Deza graphs.