Landjev, Ivan N.; Rousseva, Assia P.
On the divisibility of arcs with multiple points. (English) Zbl 07360029

Summary: In this paper, we generalize a result by Ball, Hill, Landjev and Ward on plane arcs to arcs with multiple points in spaces of arbitrary dimension. This result is further applied to the characterization of some non-Griesmer arcs in the 3-dimensional projective geometry over $\mathbb{F}_4$.

MSC:
94B05 Linear codes (general theory)
05E30 Association schemes, strongly regular graphs
94B60 Other types of codes
51C05 Ring geometry (Hjelmslev, Barbielian, etc.)

Keywords:
divisible arcs; divisible codes; Griesmer arcs; Griesmer codes; Griesmer bound; polynomial method

Full Text: Link

References:

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