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Reconstructing a generalized quadrangle from the Penttila-Williford 4-class association scheme. (English) Zbl 07415907

Summary: T. Penttila and J. Williford [J. Comb. Theory, Ser. A 118, No. 2, 502–509 (2011; Zbl 1257.05183)] constructed a 4-class association scheme from a generalized quadrangle with a doubly subtended subquadrangle. We show that an association scheme with appropriate parameters and satisfying some assumption about maximal cliques must be the Penttila-Williford scheme.

MSC:
05B25 Combinatorial aspects of finite geometries
05E30 Association schemes, strongly regular graphs
51E12 Generalized quadrangles and generalized polygons in finite geometry

Keywords:
strongly regular graph; triple intersection numbers

References:

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