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Krein parameters and antipodal tight graphs with diameter 3 and 4. (English) Zbl 1024.05086
Discrete Math. 244, No. 1-3, 181-202 (2002).

Authors' abstract: We determine which Krein parameters of nonbipartite antipodal distance-regular graphs of diameter 3 and 4 can vanish, and give combinatorial interpretations of their vanishing. We also study tight distance-regular graphs of diameter 3 and 4. In the case of diameter 3, tight graphs are precisely the Taylor graphs. In the case of antipodal distance-regular graphs of diameter 4, tight graphs are precisely the graphs for which the Krein parameter q_{11}^1 vanishes.

Reviewer: [R.E.L.Aldred \(Dunedin\)](#)

MSC:

[05E30](#) Association schemes, strongly regular graphs

Cited in **1** Review
Cited in **17** Documents

Keywords:

distance-regular graphs; Taylor graphs

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