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Weakly distance-regular digraphs of valency three. I. (English) Zbl 1335.05077

Summary: H. Suzuki [J. Comb. Theory, Ser. B 92, No. 1, 69–83 (2004; Zbl 1052.05069)] classified thin weakly distance-regular digraphs and proposed the project to classify weakly distance-regular digraphs of valency 3. The case of girth 2 was classified by the third author [Eur. J. Comb. 25, No. 3, 363–375 (2004; Zbl 1034.05050)] under the assumption of the commutativity. In this paper, we continue this project and classify these digraphs with girth more than 2 and two types of arcs.

MSC:
05C20 Directed graphs (digraphs), tournaments
05C25 Graphs and abstract algebra (groups, rings, fields, etc.)
05C12 Distance in graphs

Cited in 1 Review
Cited in 3 Documents

Keywords:
weakly distance-regular digraph; Cayley digraph

Full Text: arXiv Link

References:

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