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On t -fold covers of coherent configurations. (English) Zbl 1393.05141
[Ars Math. Contemp.](#) 14, No. 2, 397-413 (2018).

Summary: We introduce the covering configuration induced by a regular weight defined on a coherent configuration. This construction generalizes the well-known equivalence of regular two-graphs and antipodal double covers of complete graphs. It also recovers, as special cases, the rank 6 association schemes connected with regular 3-graphs, and certain extended Q -bipartite doubles of cometric association schemes. We articulate sufficient conditions on the parameters of a coherent configuration for it to arise as a covering configuration.

MSC:

- [05C22](#) Signed and weighted graphs
- [05C50](#) Graphs and linear algebra (matrices, eigenvalues, etc.)
- [05E30](#) Association schemes, strongly regular graphs

Cited in 1 Document

Keywords:

[association scheme](#); [coherent configuration](#); [regular weight](#); [double cover](#); [two-graph](#); [\$t\$ -graph](#)

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References:

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