

ON SOME NEW DIRECTED STRONGLY REGULAR GRAPHS AND THEIR ORBIT MATRICES

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Abstract

In this talk, we describe a construction of certain regular digraphs using finite simple groups. We prove the existence of some directed strongly regular graphs. Further, we introduce the notion of orbit matrices of directed strongly regular graphs. The talk is based on joint works with A. E. Brouwer, D. Crnković, M. Zubović Žutolija and T. Zrinski.

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