

On completing partial Latin squares with two filled rows and at least two filled columns

Jaromy Kuhl, Donald McGinn*, University of West Florida

In this paper we give an alternate proof that it is always possible to complete partial Latin squares with two filled rows and two filled columns, except for a few small counterexamples. The proof here is significantly shorter than the most recent proof by Adams, Bryant, and Buchanan. Additionally, we find sufficient conditions under which a partial Latin square with two filled rows and at least three filled columns can be completed.