A solution to the 7-prince's tour problem

Lorenzo Mella*

Abstract. In [1] the authors studied the closed tour problem on the 8×8 chessboard of a chess piece, called k-prince, leaving open the existence of such a tour when $k = 7$. Here, we present a solution to this open case.

References

[1] G. Chartrand and P. Zhang, A chessboard problem and irregular domination, *Bull. Inst. Combin. Appl.* **98** (2023), 43–59.

[2] N. Kamčev, Generalised Knight's tours, *Electron. J. Combin.* **21(1)** (2014), paper 1.31, 32 pp.

[3] J.J. Watkins, *Across the board: the mathematics of chessboard problems*, paperback edn., Princeton Puzzlers Princeton University Press, Princeton, NJ, 2012.

*Corresponding author: lorenzo.mella@unipr.it