

Independent sets meeting all longest paths in oriented graphs

J. Singleton*, M. Frick and S. van Aardt

University of South Africa

singlje@unisa.ac.za, marietjie.frick@gmail.com, vaardsa@unisa.ac.za

SAMS Subject Classification: Combinatorics and Graph Theory

Laborde, Payan and Xuong [1] conjectured that every digraph has an independent set of vertices that meets (intersects) every longest path. We consider the conjecture for oriented graphs with small detour deficiency.

References

- [1] J.M. Laborde, C. Payan, and N.H. Xuong, *Independent sets and longest directed paths in digraphs*, Graphs and other combinatorial topics (Prague, 1982) 173–177 (Teubner-Texte Math., 59, 1983).