

FINAL WORD ON A SHORTEST IMPLICATIONAL AXIOM

IVO THOMAS

In [1] it is shown that the only other candidate for a shortest sole implicational axiom besides the $CCCpqrCCrpCsp$ of Łukasiewicz is (1) $CCrpCCCpqrCsp$. But (1) is ruled out by the matrix

C	1	2	3
$*1$	1	3	2
2	1	3	1
3	1	1	2

constructed for other purposes by C. A. Meredith, cf. [2] p. 175. (1) is satisfied but Cpp is rejected.

REFERENCES

- [1] Tursman, Richard, "The shortest axioms of the implicational calculus," *Notre Dame Journal of Formal Logic*, vol. IX (1968), pp. 351-358.
- [2] Meredith, C. A., and Prior, A. N., "Notes on the axiomatics of the propositional calculus," *Notre Dame Journal of Formal Logic*, vol. IV (1963), pp. 171-187.

University of Notre Dame
Notre Dame, Indiana