

Katarzyna PAŁASIŃSKA

**SOME COMMENTS ON THE PAPER  
IMPLICATION SYSTEMS FOR  
MANY-DIMENSIONAL LOGICS  
BY A. PYNKO**

The main results of the paper [3] published in a recent issue of the RML are: Theorem 4.1., proposing six equivalent conditions, and an example disproving Theorem 13.2. of [1]. It should be noted that the Author has thus independently arrived at some results that have been previously known, but not widely published.

In particular, the gap in the proof and another counterexample to Theorem 13.2. of [1] have been discovered earlier, see [2, Example 3.1] and comments in [2, Chapter 3, Part I]. Concerning [3, Theorem 4.1.], the equivalence of conditions (ii) and (v) has been proved in [2, Theorem 3.10.] and the nonobvious part of the equivalence of (v) and (vi) is the combination of Theorem 3.23. and Lemma 3.15. given there. The terminology of [2] differs from the terminology of [3]. The proof of the equivalence of (ii) and (v), presented in [2], is essentially a correction of the original argument used in [1, 13.2] uhal, while the proof in [3] is different.

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### References

- [1] W. Blok, D. Pigozzi, *Algebraic Semantics for Universal Horn Logic without Equality*, in: *Universal Algebra and Qsigroup Theory*, A. Romanowska, J. D. H. Smith (eds.), Heldermann Verlag Berlin 1992, pp. 1-56.
- [2] K. Pałasińska, *Deductive systems and finite axiomatization properties*, Doctoral Dissertation, Iowa State University, 1994, pp. 325.
- [3] A. Pynko, *Implication Systems for many-dimensional logics*, *Reports on Mathematical Logic* **33** (1999), 11-27.

Cracow University of Technology  
Department of Mathematics  
Warszawska 24, 31-155 Kraków  
Poland

e-mail: [kpalasin@usk.pk.edu.pl](mailto:kpalasin@usk.pk.edu.pl)