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A NEW AXIOMATIZATION OF IK_t SYSTEM

There are several systems of intuitionistic tense logic [1],[2],[3]. In the talk we would like to consider one of them given in [1] and called of IK_t . This is a minimal system of intuitionistic tense logic (no conditions are imposed upon earlier-later relation).

We will propose a new axiomatization for this system. Our set of axioms is smaller than the set of axioms proposed by Ewald, then the new axiomatization is simpler. We will prove our axiomatization of IK_t is equivalent to the Ewald's axiomatization.

References

- [1] Ewald W.B., *Intuitionistic tense and modal logic*, The Journal of Symbolic Logic, vol 51, Nr 1, 1986
- [2] Surowik D., *Some remarks about intuitionistic tense logic*, On Leibniz's Philosophical Legacy, 1997
- [3] Trzęsicki K, *Intuitionism and Indeterminism (tense logical considerations)*, Jan Woleński, Philosophical Logic in Poland, Kluwer Academic Publishers,1994

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