Takano, Mitio

Proof theory for minimal quantum logic: A remark. (English) Zbl 0824.03032

Int. J. Theor. Phys. 34, No. 4, 649-654 (1995).

This paper shows proof-theoretically that in the reviewer's [ibid. 33, 103-113 and 1427-1443 (1994; Zbl 0798.03062 and Zbl 0809.05045)] cut-free sequential system for minimal quantum logic the inference rule

$$\frac{\Gamma \to \Delta}{\Delta' \to \Gamma'} \quad (\,' \to \,')$$

is redundant.

Reviewer: Hirokazu Nishimura (Ibaraki)

MSC:

03F05 Cut-elimination and normal-form theorems
03B60 Other nonclassical logic
03G12 Quantum logic
81P10 Logical foundations of quantum mechanics; quantum logic (quantum-theoretic aspects)

Keywords:

cut-elimination theorem; cut-free sequential system for minimal quantum logic

Full Text: DOI

References:

[1] Nishimura, H. (1994).International Journal of Theoretical Physics,33, 103-113, 1443-1459. · Zbl 0798.03062 · doi:10.1007/BF00671616