

**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

$$\frac{\Gamma \rightarrow \Delta}{\Delta' \rightarrow \Gamma'} \quad (' \rightarrow ')$$

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)

Cited in 4 Documents

**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

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