

Stuff related to tensor products of modal algebras

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1 Preliminaries

Definition 1. *A normal modal logic*

Definition 2. *A Kripke frame, a Kripke model, a general frame*

Definition 3. *A modal algebra/a complex algebra*

Definition 4. *the logic of a frame/class of frames.*

Definition 5. *product of frames/product of logics*

Definition 6. *discrete duality between perfect modal algebras and Kripke frames*

Definition 7. *A finitely axiomatisable normal modal logic*

TODO: describe related underlying results

2 Tensor products of modal algebras. The basic definitions and results

Definition 8. *A commutative associative algebra*

Definition 9. *Tensor product of them*

Definition 10. *Tensor product of modal algebras*

Definition 11. *Tensor product of general frames*

TODO: describe related underlying results

3 Note on incomplete modal logics

TODO: consider the system containing **GL**, McKinsey, seriality, and linearity.

4 Solution of Problem 1

5 Solution of Problem 4

References

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