ALBERT VISser, Lõb’s Logic and the Lewis Arrow.
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My talk reports on research in collaboration with Tadeusz Litak.
In the constructive context, the Lewis arrow does not reduce to the modal box. Moreover, a slight generalization of the Lewis arrow, has contraposed interpretability as a special case.
I will discuss versions of Lõb’s logic with the Lewis arrow. I will address:
• the definition of various systems,
• Kripke semantics,
• explicit fixed points,
• uniform interpolation (which is at present only known for two special systems),
• arithmetical interpretations.
At the end of the talk, I will briefly present some questions for further research.