

- ALBERT VISSER, *Löb's logic and the Lewis arrow*.
Philosophy, Faculty of Humanities, Janskerkhof 13, 3512 BL Utrecht, The Netherlands,
Utrecht University.
E-mail: a.visser@uu.nl.

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 Löb'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.