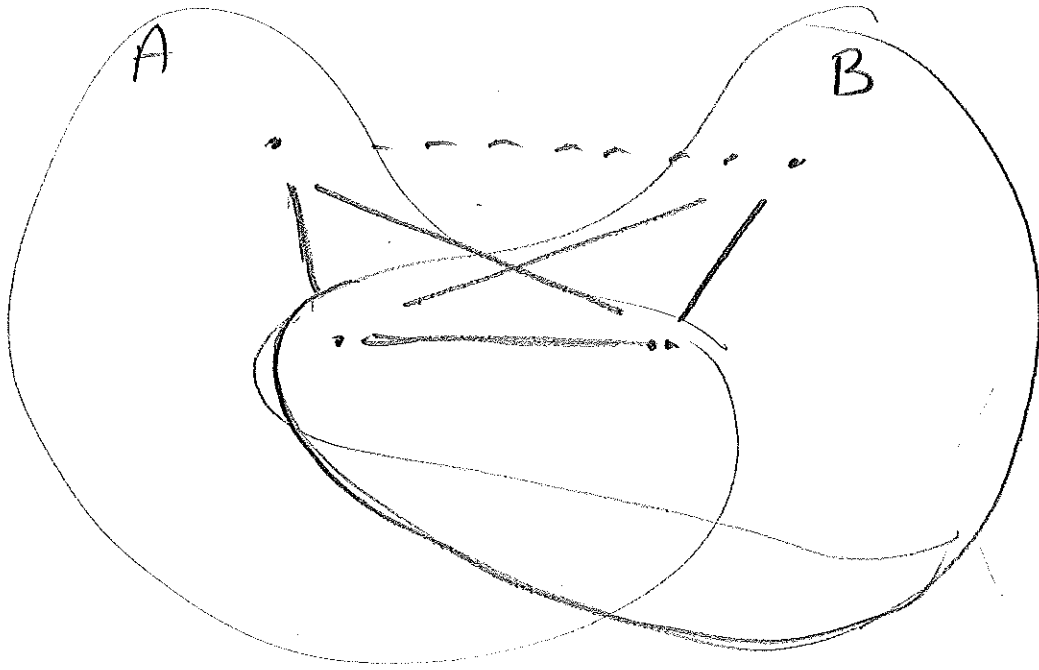


11 April.

In ~~of~~ arrow logic,

The relational calculus [ ] can be significantly generalised by replacing general converse ( $\nu$ ) by relative converse ( $\nu^r$ ) ~~by omission of the identity~~ ~~general converse ( $\nu$ )~~ ~~and even the identity ( $I$ )~~ ~~The various~~ ~~presentations are~~ ~~explored~~ ~~in~~ ~~arrow~~ ~~logic~~ [ ], ~~quantale~~ ~~theory~~ [ ] and the sequential calculus [ ].

This paper explores and illustrates a series of ~~nine~~ ~~mutually~~ ~~independent~~ ~~axioms~~ ~~which~~ ~~restore~~ ~~to~~ ~~endow~~ ~~the~~ ~~relative~~ ~~converse~~ ~~with~~ ~~the~~ ~~properties~~ ~~of~~ ~~the~~ ~~absence~~ ~~of~~ ~~the~~ ~~general~~ ~~converse~~ that may be shared for the relative ~~if~~ they have converse, which endows it with much of the algebraic power of the general converse. They have an elegant diagrammatic presentation, which aids in the construction of proofs.



insert