



New advances towards a proof-theoretical definition of logical constants.

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Comments: tba

In *Defining Logical Constants : An insight from Basic Logic* (2004), Bonnay and I propose a local procedure to define logical constants inside a sequent calculus framework, BL. Recently (*Tonk Strikes Back*, forthcoming), we have proved that this procedure can be applied to a system of inference rules in order to banish the “tonk”-like pathological connectives from it.

In this talk I will go back to our original goal : a criterion that picks out all the right logical constants and only them. I will present some difficulties unsolved in these previous two papers, especially concerning the interaction between the logical language and the metalanguage in which logical terms are explicitly defined, and I will examine different possible solutions.