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SEMINÁRIO DE LÓGICA MATEMÁTICA

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Cut as a semantical principle

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Abstract:

The rule of Cut in the sequent calculus is a cornerstone of proof-theory. Its eliminability in a calculus guarantees a series of nice properties of this calculus, like consistency via subformula principle, etc. It has been usually treated as a syntactical property. We defy such an assumption. The points we intend to claim are the following: (i) Cut is a semantical principle; (ii) The notion of hypothesis is intimately related to Cut; (iii) A nice semantics for intuitionistic propositional logic is obtained if we admit the concept of hypothesis as a primary concept; (iv) Kripke semantics is intensionally wrong; (v) the tableaux rules are an immediate reading of the semantical clauses.

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