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SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 15 de Outubro (segunda-feira), sala 6.2.33 às 16:00

On the undecidability of type inhabitation for atomic polymorphism (part 2)

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Abstract:

Pawel Urzyczyn has shown how to obtain a syntactic proof of the undecidability of type inhabitation for systems \mathcal{F} and \mathcal{F}_ω by a reduction involving the codification of a certain undecidable \forall -fragment of intuitionistic predicate calculus and the use of the Curry-Howard isomorphism. We show how this technique can be simplified and used to prove the undecidability of type inhabitation for atomic polymorphism.

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