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Galois embedding from polymorphic types into existential types. (English) [Zbl 1114.03009](#)
Urzyczyn, Paweł (ed.), Typed lambda calculi and applications. 7th international conference, TLCA 2005, Nara, Japan, April 21–23, 2005. Proceedings. Berlin: Springer (ISBN 3-540-25593-1/pbk). Lecture Notes in Computer Science 3461, 194-208 (2005).

Summary: We show that there exist bijective translations between polymorphic λ -calculus and a subsystem of minimal logic with existential types, which form a Galois connection and moreover a Galois embedding. From a programming point of view, this result means that polymorphic functions can be represented by abstract data types.

For the entire collection see [\[Zbl 1070.03001\]](#).

MSC:

[03B40](#) Combinatory logic and lambda calculus
[68N18](#) Functional programming and lambda calculus

Cited in **5** Documents

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