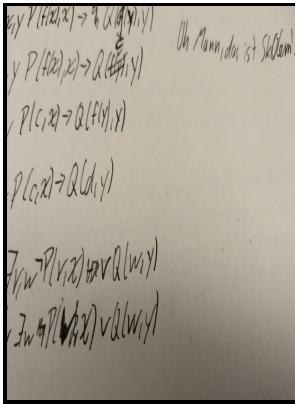


# On Skolem and Herbrand theorems for intuitionistic logic.

Universitetet i Oslo, Matematisk institutt - Collegium Logicum Proof Theory: Herbrand's Theorem revisited

Description: -



Northern Ireland -- Politics and government -- 1969-1994.

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Allied health personnel -- Recruiting -- California.

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Medical care -- Recruiting -- California.

Medical personnel -- Vocational guidance.

Medicine -- Vocational guidance.

Intuitionistic mathematics.

Predicate calculus. On Skolem and Herbrand theorems for intuitionistic logic.

Preprint series. Mathematics, 1972: no. 4 On Skolem and Herbrand theorems for intuitionistic logic.

Notes: Bibliography: leaf 23.

This edition was published in 1972



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Similarly, one can prove the consistency of predicate logic or the pure epsilon calculus , by specializing to interpretations where the universe of discourse has a single element.

## On Herbrand's Theorem for Intuitionistic Logic

We improve upon a number of recent undecidability results related to the so-called Herbrand Skeleton Problem, the Simultaneous Rigid E-Unification Problem and the prenex fragment of intuitionistic logic with equality. We define a novel method avoiding proof normalization and show that expansion trees can be extracted from the resolution refutation and the corresponding proof projections. The epsilon calculus, however, has applications in other contexts as well.

## Collegium Logicum Proof Theory: Herbrand's Theorem revisited

Another application of epsilon calculus is as a general logic for reasoning about arbitrary objects. We prove that the new method asymptotically outperforms the standard method which first computes the ACNF and then extracts the expansion tree. We define a schematic version of the sequent calculus, called LKS, and devise algorithms to extract schematic characteristic formulas and schematic projections from these proof schemata.

## Normalization Theorems for the Intuitionistic Systems with Choice Principles

Since the epsilon calculus includes first-order logic, the first epsilon theorem implies that any detour through first-order predicate logic used to derive a quantifier-free theorem from quantifier-free axioms can ultimately be avoided. Tableau method with free variables for intuitionistic logic.

## **Herman Ruge Jervell, On Skolem and Herbrand Theorems for Intuitionistic Logic**

They are the logical tradition of Coquand and the computer science tradition of Hyland-Ong. The epsilon calculus was to provide the first component of this program, while his epsilon substitution method was to provide the second.

### **On Herbrand's Theorem for Intuitionistic Logic**

TABLEAUX'96, volume 1071 of LNCS, pages 312-329, 1996. UCS, 5 3 :88-112, 1999.

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