

[Dowek, Gilles; Hardin, Thérèse; Kirchner, Claude](#)  
**Theorem proving modulo.** (English) [Zbl 1049.03011](#)  
[J. Autom. Reasoning](#) 31, No. 1, 33-72 (2003).

The authors argue that theorem proving can be divided into a computation part and a deduction part. Deduction modulo is a method to remove the computational arguments from proofs.

A proof search method is presented based on extended narrowing and resolution which is sound and complete with respect to the sequent calculus modulo, for a large class of congruences.

Reviewer: [Uwe Schöning \(Ulm\)](#)

**MSC:**

[03B35](#) Mechanization of proofs and logical operations  
[03F05](#) Cut-elimination and normal-form theorems

Cited in **47** Documents

**Keywords:**

[automated theorem proving](#); [term rewriting](#); [resolution](#); [narrowing](#); [higher-order logic](#); [cut elimination](#); [deduction modulo](#); [sequent calculus modulo](#); [Skolemization](#); [combinators](#)

**Full Text:** [DOI](#)