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Linear logic and computation: A survey. (English) [Zbl 0828.03004](#)

Schwichtenberg, Helmut (ed.), Proof and computation. Proceedings of the NATO ASI summer school held in Marktoberdorf, Germany, July 20-August 1, 1993. Berlin: Springer-Verlag. NATO ASI Ser., Ser. F, Comput. Syst. Sci. 139, 379-395 (1995).

This is a survey of modeling various complexity classes (by a proof search) in fragments of linear logic. PSPACE-hardness of the nonmodal multiplicative additive linear logic is treated in some detail.

For the entire collection see [\[Zbl 0816.68017\]](#).

Reviewer: [G.Mints \(Stanford\)](#)

MSC:

[03B20](#) Subsystems of classical logic (including intuitionistic logic)

[03-02](#) Research exposition (monographs, survey articles) pertaining to mathematical logic and foundations

[68Q15](#) Complexity classes (hierarchies, relations among complexity classes, etc.)

Cited in **1** Document

Keywords:

survey; complexity classes; proof search; fragments of linear logic; PSPACE-hardness