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**Certified CYK parsing of context-free languages.** (English) Zbl 1371.68137

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Summary: We report a work on certified parsing for context-free grammars. In our development we implement the Cocke-Younger-Kasami parsing algorithm and prove it correct using the Agda dependently typed programming language.

**MSC:**

[68Q42](#) Grammars and rewriting systems  
[68N15](#) Theory of programming languages  
[68Q45](#) Formal languages and automata

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**Keywords:**

[certified programs](#); [parsing](#); [Cocke-Younger-Kasami algorithm](#); [dependently typed programming](#); [Agda](#)

**Software:**

[Agda](#); [TRX](#)

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

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