

## Factoring linear recurrence operators

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Several computer algebra systems have implementations for finding hypergeometric solutions of linear recurrence equations. This is equivalent to finding first order factors of linear recurrence operators. This talk will present several approaches to compute higher order factors of operators in  $\mathbb{Q}(x)[\tau]$  where  $\tau$  is the shift operator.

### **Keywords**

Recurrence equations, recurrence operators, shift operator, factorization