

# Integral Bases for D-Finite Functions

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We propose a differential analog of the notion of integral closure of algebraic function fields. We present an algorithm for computing the integral closure of the algebra defined by a linear differential operator. Our algorithm is a direct analog of van Hoeij's algorithm for computing integral bases of algebraic function fields. This work is accepted for ISSAC'15 [1].

## References

- [1] M. Kauers and C. Koutschan, *Integral D-finite Functions*, Proceedings of ISSAC'15, to appear.