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2. Elliptic polylogarithms The elliptic polylogarithms are single-valued analytic functions on the universal covering of a punctured universal elliptic curve. We will define them as multivalued analytic functions on the partial covering $(C/H)^n/L$, where L is the relative lattice $L := (f = m + n; g_j m; n \in \mathbb{Z})$. It is well known that the universal covering of the universal elliptic curve is the product C/H

Elliptic polylogarithms: An analytic theory

In this article we introduce a natural 'elliptic' generalization of

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Spencer Bloch: 'Higher regulators, algebraic K-theory and zeta-functions of elliptic curves', Lecture Notes, U.C. Irvine, 1977. [BL]
Alexander Beilinson and Andrey Levin: 'Elliptic Polylogarithms', Proceedings of Symposia in Pure Mathematics, Vol. 55 (1994), Part 2, pp. 126–196.

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Elliptic polylogarithms are multi-valued analytic functions on a

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punctured elliptic curve. We realize the elliptic curve as the quotient of \mathbb{C} by lattice $L = \mathbb{Z} \oplus \tau\mathbb{Z}$. Hence these functions can be described as functions on \mathbb{C}/L .

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Finally, in Part III we describe the numerical and theoretical evidence for conjectures expressing special values of L-series associated to elliptic curves in terms of “elliptic polylogarithm functions” which are obtained by an averaging process from the classical polylogarithms.

CLASSICAL AND ELLIPTIC POLYLOGARITHMS AND SPECIAL VALUES ...

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Abstract: We investigate the elliptic analogs of multi-indexed polylogarithms that appear in the theory of the fundamental group of the projective line minus three points as sections of a universal nilpotent bundle with regular singular connection. We use an analytic uniformisation to derive the fundamental nilpotent De Rham torsor of a single elliptic curve in terms of a double Jacobi form introduced by Kronecker.

[math/0703237] Towards multiple elliptic polylogarithms

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Abstract. We give an overview of some work on elliptic multiple zeta values. First defined by Enriquez as the coefficients of the elliptic KZB associator, elliptic multiple zeta values are also special values of multiple elliptic polylogarithms in the sense of Brown and Levin. Common to both approaches to elliptic multiple zeta values is their representation as iterated integrals on a once-punctured elliptic curve.

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One of the computational approaches making use of this property is the method of differential equations [29, 34]. Here a Feynman integral is computed by integrating over a linear

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Abstract: We derive an analytic representation of the ten-particle,

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two-loop double-box integral as an elliptic integral over weight-three polylogarithms. To obtain this form, we first derive a four-fold, rational (Feynman-)parametric representation for the integral, expressed directly in terms of dual-conformally invariant cross-ratios; from this, the desired form is easily obtained.

[1712.02785] The Elliptic Double-Box Integral: Massless ...

Several different stories come together via elliptic motives: elliptic polylogarithms, the Beilinson symbol, Manin's iterated Shimura integrals, the elliptic Knizhnik-Zamolodchikov-Bernard equation; it is a theory at the interface of algebraic K-theory, arithmetic geometry and algebraic topology.

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