Mapping class groups: pronilpotent and cohomological approaches



Contribution ID: 4

Type: not specified

## Hodge correlators, the Goldman–Turaev Lie bialgebra and Johnson homomorphisms

Monday 18 September 2023 17:00 (55 minutes)

Goncharov's Hodge correlators give a method for computing the periods of the real mixed Hodge structure on the unipotent fundamental group of a hyperbolic Riemann surface X. The Hodge correlator of X takes values in the cyclic quotient of the graded Lie bialgebra  $|T(H_1(X))|$ . The goal of the talk is to explain how Goncharov's work is related to Johnson homomorphisms and the Goldman–Turaev Lie bialgebra.

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