

CANONICAL GENERATORS FOR THE LIE ALGEBRA ASSOCIATED TO MOTIVIC MULTIZETA VALUES

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We know by a theorem of F. Brown that the motivic multizeta values mod $\zeta(2)$ form a commutative Hopf algebra with the property that the set of Lie elements in the dual forms a weight-graded, depth-filtered Lie algebra which is generated by one element of depth 1 in each odd weight. However, no particular set of canonical generators has been determined up to now. We give a method to determine such a set, consisting of elements satisfying one simple, striking property.