

# HYPERDERIVATIVES OF PERIODS OF DRINFELD MODULES AND TRANSCENDENCE

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We investigate hyperderivatives of periods of Drinfeld modules by studying an Anderson  $t$ -module whose periods involve hyperderivatives of periods of the given Drinfeld module. We further investigate transcendence of periods using Papanikolas' results on transcendence degree of the period matrix of a  $t$ -motive and dimension of its Galois group.