

## Implementing finite summation identities of polygamma and related functions into Mathematica

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**Abstract:** Finite sums of polygamma and related functions find diverse applications in mathematical physics and other fields. These types of sums often admit closed-form expressions by exploring recurrence relations of various forms. In this talk, we will first outline some strategies to approach the considered sums. We will then discuss the on-going collaboration with Wolfram Research to possibly implement these sums into future versions of the computer algebra system Mathematica.