
E-functions and geometry

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Abstract

Among the contributions of Yves André that have been a great source of inspiration for me over the years is his book "G-functions and geometry", where he proves for example that solutions of differential equations of geometric origin over the field of algebraic numbers are G-functions. I will discuss an ongoing work with Peter Jossen in which we study E-functions from the point of view of exponential motives and namely Siegel's question whether all E-functions are of hypergeometric type.

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