

Analytic continuation of Euler product in several variables

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For a large class of Euler products in one variable it is known that there is no analytic continuation beyond a half plane unless some very special conditions are satisfied. Such a result can be extended to zeta functions of the form $\prod_p f(p^{-s_1}, \dots, p^{-s_r})$ for a 'nice' function f . For more general cases we will give some partial answers.

We will mention examples of zeta functions from algebraic number theory and group theory.