ALGEBRA AND NUMBER THEORY
SEMINAR

Eta-quotients and theta functions

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Abstract: The Jacobi Triple Product Identity gives a closed form for many infinite product generating functions that arise naturally in combinatorics and number theory. Of particular interest is its application to Dedekind's eta-function $\eta(z)$, defined via an infinite product, giving it as a certain kind of infinite sum known as a theta function. Using the theory of modular forms, we classify all eta-quotients that are theta functions.

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