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Madison, WI 53706. *q-series identities and L-functions*. Preliminary report.

This lecture summarizes recent joint works with G. E. Andrews, G. Coogan and J. Jimenez-Urroz on certain connections between q -series and L -functions. Here we present infinitely many examples of q -series identities related to infinite product power series. In particular, these include a number of infinite families of modular forms and functions. As a corollary, we obtain generating functions for the values of infinite families of a variety of types of L -functions at negative integral arguments. (Received September 26, 2000)