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Nicholas A Loehr and **Elizabeth M Niese*** (niese@marshall.edu). *A bijective factorization of modified Macdonald polynomials.*

In recent years there has been great interest in the combinatorics of Macdonald polynomials. Recently Descouens and Morita used symmetric function identities to prove a factorization of the modified Macdonald polynomials when one parameter is set to a root of unity. They pose the problem of finding a bijective proof of this factorization using Haglund's combinatorial formula for the modified Macdonald polynomials. In this talk I present a bijective proof of this factorization. (Received September 20, 2011)