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Carrie E. Finch*, finhc@wlu.edu. *Irreducibility of Polynomials with Nexus Numbers modulo m as Coefficients*. Preliminary report.

Nexus numbers are d -dimensional figurate numbers $N_d(n) = (n + 1)^{d+1} - n^{d+1}$. For fixed values of d and m , we form polynomials using $N_d(n) \pmod{m}$ as the coefficient of x^n . In this talk, we consider the irreducibility of these polynomials. (Received February 02, 2015)