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Ji Young Choi* (jychoi@ship.edu), 1871 Old Main Dr, Shippensburg, PA 17257. *Ternary Representation of Collatz function.*

The Collatz conjecture is that every positive integer reaches 1, when we apply Collatz function indefinitely, where Collatz function is $f(n) = 3n + 1$ if n is odd and $\frac{n}{2}$ if n is even. This talk will present how Collatz function works with ternary numbers, and discuss the Collatz sequences beginning with 3^n and $\sum 3^n$. (Received September 06, 2014)