Paul Thomas Young On Lucas-Bernoulli numbers,Fibonacci Quart. 44 (2006), no. 4, 347–357.

Abstract

In this article we investigate the Bernoulli numbers \hat{B}_n associated to the formal group laws whose canonical invariant differentials generate the Lucas sequences $\{U_n\}$ and $\{V_n\}$. We give explicit expressions for these numbers and prove analogues of Kummer congruences for them.