

1106-C5-2391      **Tom Morley\*** (morley@math.gatech.edu), School of Math // Georgia Tech, 686 Cherry St // Skiles Build, Atlanta, GA 30306. *Some proofs and discoveries from Euler and Heaviside.*

We give several examples of proofs that would not be considered proofs by contemporary Mathematicians, of correct theorems and calculations of Euler and Heaviside, including Euler's remarkable approach to zeta of even integers, and Heaviside's solution of the age of the earth partial differential equation . Although both of these examples can be "rigorized" by modern techniques, that is not the point. We pose more questions than answers. (Received September 16, 2014)