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Luis A Medina* (luis.medina17@upr.edu), University of Puerto Rico, Department of Mathematics, Box 70377, San Juan, PR 00931. *The p -adic valuation of Eulerian numbers: trees and Bernoulli numbers*. Preliminary report.

In this work we explore the p -adic valuation of Eulerian numbers. We construct a tree whose nodes contain information about the p -adic valuation of these numbers. Using this tree, and some classical results for Bernoulli numbers, we compute the exact p divisibility for the Eulerian numbers when the first variable lies in a congruence class and p satisfies some regularity properties. (Received August 28, 2014)