1047-37-495   **Karl Petersen*** (`petersen@math.unc.edu`), Department of Mathematics, CB 3250 Phillips Hall, Chapel Hill, NC 27599, and **Alexander Varchenko**. *The Eulerian adic dynamical system.*

We prove that there is a unique fully supported ergodic measure for the Bratteli-Vershik (adic) dynamical system on the Eulerian graph by generalizing a formula for the Eulerian numbers, proving monotonicity of certain sequences of ratios by means of a curious two-dimensional induction argument, and setting up a one-to-one correspondence between large sets of paths beginning from two vertices at the same level of the diagram. (Received February 04, 2009)