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Joanna M. Furno* (furno@live.unc.edu). *Haar Measures of p -adic Julia Sets*. Preliminary report.

For a fixed prime p , the set of p -adic numbers \mathbb{Q}_p is contained in an algebraically closed field \mathbb{C}_p . For some polynomial maps on \mathbb{C}_p , the Julia set of the polynomial is contained in \mathbb{Q}_p . This talk will discuss various possibilities for the Haar measure of such a Julia set. (Received September 25, 2012)