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**Douglas C Bowman\*** ([bowman@math.niu.edu](mailto:bowman@math.niu.edu)), Professor Douglas Bowman, Northern Illinois University, Mathematical Sciences, Watson Hall 320, DeKalb, IL 60115. *Harmonic Continued Fractions*. Preliminary report.

Harmonic continued fractions are a new method for the expansion of real numbers. We describe the algorithm and its basic properties. It is also shown that when the algorithm is applied to the number  $\pi$ , the resulting digits follow a simple pattern. (Received September 23, 2010)