

1057-31-193

John M Mackay* (jmmackay@illinois.edu), 1409 W. Green Street, Urbana, IL 61801, and
Jeremy T Tyson and **Kevin Wildrick**. *Poincare inequalities and non-self-similar Sierpinski
carpets*. Preliminary report.

The classical construction of the Sierpinski carpet has a natural generalization to a class of non-self-similar carpets. We discuss properties of these spaces, considering in particular whether they admit a Poincare inequality. (Received January 22, 2010)