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Ricardo A. Sáenz* (rasaenz@ucol.mx), Facultad de Ciencias, Universidad de Colima, 28045 Colima, Colima, Mexico. *Hardy spaces on PCF fractals.*

On appropriate self-similar fractals, of the "post-critically finite" (PCF) type, one can define a harmonic structure that induces a Laplacian, which in turns defines a Poisson semigroup. The Poisson integrals correspond to harmonic functions in a tube on the fractal, and one can define the Hardy spaces in terms of their maximal functions. We discuss the properties of the Hardy space H^1 and its atomic decomposition. (Received March 19, 2017)