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**Janine Dahl\*** ([janine.dahl@rice.edu](mailto:janine.dahl@rice.edu)), Rice University, Department of Mathematics - MS 136, Houston, TX 77005. *The Dimension of the Spectrum of the Off-Diagonal Fibonacci Hamiltonian*. Preliminary report.

We will consider the off-diagonal Fibonacci operator, which has zero Lebesgue measure spectrum and purely singular continuous spectral measures, and show upper and lower bounds on the fractal dimension of the spectrum for large coupling by considering periodic approximations of the operator. (Received January 26, 2010)