Marius Ionescu, Annapolis, MD, Kasso Okoudjou* (kasso@mit.edu), MIT, Department of Mathematics, Cambridge, MA, and Luke Rogers, CT. The strong maximum principle for Schrödinger operators on PCF fractals. Preliminary report.

Let $\Delta$ be the standard self-similar Laplacian on a PCF fractal $K$. We consider the associated Schrödinger operator $L = -\Delta + a$ where $a \geq 0$ on $K$. We prove a number of Maximal Principles for $L$ for $a$ in various function classes. (Received September 23, 2018)