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**Helge Krueger\*** ([hk7@rice.edu](mailto:hk7@rice.edu)), Dept. of Math., Rice Univ., 6100 S. Main St., Houston, TX 77005. *Recent progress on Schroedinger operators with potential  $V(n) = 2\lambda \cos(2\pi\alpha n^\rho)$ .*

I will discuss recent progress concerning understanding the Schroedinger operator with potential  $V(n) = 2\lambda \cos(2\pi\alpha n^\rho)$ . The case  $\rho = 1$  corresponds to the Almost–Mathieu operator, and is reasonably well understood, I will discuss results for other values of  $\rho$ . (Received January 21, 2010)