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Zoran Šunić* (sunic@math.tamu.edu) and **Rostislav Grigorchuk**. *Schreier spectra and self-similar groups*. Preliminary report.

We present a method of calculating the Schreier spectrum of some self-similar groups. The method is based on earlier work of Bartholdi and Grigorchuk and relies on the use of multi-dimensional dynamical systems. The examples include an infinite family of self-similar groups of intermediate growth and the Hanoi Towers group. (Received September 04, 2006)