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Arunima Ray* (arunima.ray@rice.edu), Department of Mathematics, Rice University, MS-136, 6100 Main St., PO Box 1892, Houston, TX 77251-1892. *The fractal nature of the knot concordance group.*

Let P be a knot in a solid torus V . By tying V into any knot K , one obtains a function on the set of all knots; this is the classical satellite construction by the satellite operator P . Satellite operators descend to give well-defined functions on the knot concordance group. I will describe how a number of recent results show that a certain class of satellite operators give self-similarities of the knot concordance group at arbitrarily small scales. (Received September 17, 2013)