1172-28-320 **Dmitry Drozdov*** (`d.drozdov1@g.nsu.ru`), Russia, and **Andrei Tetenov** (`a.tetenov@gmail.com`), Russia. *On fractal cubes possessing finite intersection property.*

Let $n \geq 2$ and let $D = \{d_1, \cdots, d_N\} \subset \{0, 1, \ldots, n-1\}^k$. The set D and the integer n determine a system of contractions $\mathcal{S} = \{S_j(x) = \frac{1}{n}(x + d_j)\}_{j=1}^N$ in R^k, whose attractor K satisfies the set equation $nK = K + D$ and is called a fractal k-cube of order n.

We discuss the properties of projections, sections and intersection formulas for fractal cubes and find the conditions for the digit set D under which a fractal k-cube K possesses finite intersection property. We further apply them to find the conditions for D which ensure that K is a dendrite. (Received August 31, 2021)