

We will present an overview about the construction, properties and applications of a family of 3-dimensional Koch-type fractal crystals. To be more precise, we will discuss the construction and geometry of this family, and calculate the Hausdorff dimensions. Then, we establish the existence of monotonic sequences approximating from above and below the Hausdorff measures of the Koch crystals. At the end, we will present a direct application to Partial Differential Equations, particularly, the Robin boundary value problem.

link: meet.google.com/urm-rhmx-dhw

