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Dimensions and spectra of the $t$-popcorn graphs.  (English) [Zbl 07472973]

Summary: In this paper, we study the dimensions and spectra of $t$-popcorn graphs where $t$ is a positive finite real number. We give the explicit formulae of the box dimensions and the Assouad spectra of $t$-popcorn graphs for $0 < t < 2$. The results follow from finer layer estimates developed by Duffin-Schaeffer type estimates and Chung-Erdős inequality in horizontal views and nonlinear collapsed views respectively related to the parameter $t$.

MSC:
28Axx  Classical measure theory
28-XX  Measure and integration
60Dxx  Geometric probability and stochastic geometry

Keywords:
$t$-popcorn graph; $t$-popcorn function; box dimension; Assouad spectrum; Assouad dimension

Full Text: DOI

References:


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