Zbl 346.05106

Erdős, Paul; Preiss, D.

Articles of (and about)

Decomposition of spheres in Hilbert spaces. (In English)

Commentat. Math. Univ. Carol. 17, 791-795 (1976). [0010-2628]

We join two points of the unit sphere of the Hilbert space of  $\mathfrak{X}_{\alpha+2}$  dimension by edge if their distance is greater than 3/2. By using the generalized continuum hypothesis there is proved that the chromatic number of this graph is  $\mathfrak{X}_{\alpha+1}$  and that every subgraph spanned by  $\mathfrak{X}_{\alpha+1}$  vertices has chromatic number  $\leq \mathfrak{X}_{\alpha}$ .

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Classification:

05C15 Chromatic theory of graphs and maps