

## SPLITTING CUBIC CIRCLE GRAPHS

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### Abstract

We show that every 3-regular circle graph has at least two pairs of twin vertices; consequently no such graph is prime with respect to the split decomposition. We also deduce that up to isomorphism,  $K_4$  and  $K_{3,3}$  are the only 3-connected, 3-regular circle graphs.

**Keywords:** circle graph, split decomposition, regular graph.

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