

# Factorization of $K_{n,n}$ into $(0, j)$ -prism.

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## Abstract

We establish a necessary and sufficient condition for the existence of factorization of the complete bipartite graph  $K_{n,n}$  into some families of 3-regular graphs.

## 1 Introduction

All graphs considered in this paper are simple, finite and undirected. We use standard terminology and notation of graph theory.

Graph decomposition have been widely studied in many different settings. We say that a graph  $B$  has a  $G$ -decomposition if there are subgraphs  $G_0, G_1,$

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