

Switching Reconstruction

J. A. Bondy

*Université Lyon 1 and Université Paris 6, France
(jabondy@univ-lyon1.fr or jabondy@moka.ccr.jussieu.fr)*

Abstract

We discuss a variant of the Reconstruction Conjecture due to Stanley. Rather than deleting vertices, one at a time, and attempting to reconstruct the graph from the resulting deck of unlabelled cards, one considers the deck obtained by complementing the sets of incident edges at vertices. We present a new and somewhat simpler approach to this problem and discuss related questions and generalizations.

This is joint work with Fabien Mercier (Paris 6).