Reconstruction Numbers for Unicyclic Graphs

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The set of all vertex deleted subgraphs of a graph G is called the deck of G and is denoted $D(G)$. One of the most famous conjectures in graph theory is the reconstruction conjecture which (informally) states that a finite simple undirected graph with at least three vertices is determined by $D(G)$. A graph that is determined by its deck is said to be reconstructible. If G is reconstructible, the reconstruction number of G, denoted $RN(G)$, is the size of a smallest subset of $D(G)$ which determines G. In this talk we investigate reconstruction numbers for unicycle graphs, extending results presented at last years conference.

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