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Vertex Pasted Skeletal Graph Pairs and Zero Forcing Numbers.

We continue our work with skeletal graph pairs (G, \mathcal{G}) , more specifically the new concept of vertex pasted skeletal graph pairs and explore how this concept can be used to determine $Z(G)$ by considering the vertex induced subgraphs $\mathcal{G} = \{G_i\}_{i=1}^n$ given by a partition of the graph's vertices. Viewing each vertex induced subgraph as a single vertex we construct a new graph called the skeleton \mathcal{S} . We then examine which properties of \mathcal{S} and \mathcal{G} can be used to determine bounds and even precise values for $Z(G)$, compare these results to those of the more restrictive edge adjoined skeletal graph pairs, and finally introduce some new classes of graphs for which the developed theorems yield immediate results.

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