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**MICHAEL YOUNG**, Iowa State University  
*Disjoint Homometric Sets in Graphs*

Two subsets of vertices in a graph are called *homometric* if the multisets of distances determined by each set are the same. Let  $h(n)$  denote the largest number  $h$  such that any connected graph of  $n$  vertices contains two disjoint homometric subsets of size  $h$ . This talk will cover bounds of  $h$ , as well as other results about disjoint homometric sets.