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Mark L. Lewis* (lewis@math.kent.edu), Department of Mathematical Sciences, Kent State University, Kent, OH 44242. *Recent work and current problems in character degrees.*

For a finite group G , we let $\text{Irr}(G)$ denote the set of irreducible characters of G . The set of character degrees of G is the set $\text{cd}(G) = \{\chi(1) \mid \chi \in \text{Irr}(G)\}$. We will survey a number of recent results regarding $\text{cd}(G)$. This will include results regarding graphs associated with character degrees. As we go along, we will highlight a number of open problems, and we will discuss how one might approach some of these open problems. (Received August 22, 2014)