Mark W Bissler* (mbissle2@kent.edu), Stow, OH 44224, and Mark L Lewis. A family of graphs that cannot occur as character degree graphs of solvable groups.

We investigate character degree graphs of solvable group. In particular, we provide general results that can be used to eliminate which degree graphs can occur as a solvable groups. Finally, we show a specific family of graphs cannot occur as a character degree for any solvable group. (Received September 09, 2016)