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Angela Hanson* (angela.hanson@uky.edu), Lexington, KY 40517. *Application of graph theory to the Wahl map*. Preliminary report.

We will discuss the Wahl map and why we care about its surjectivity. Following the work of Ciliberto, Harris, and Miranda, we will simplify the problem by turning this into a graph theoretic problem. We will see that the rank of the Wahl map detects planarity of the graph. Time permitting, we will discuss other graphic properties that may be illuminated by the Wahl map. (Received January 11, 2022)