Charles Frohman* (charles-frohman@uiowa.edu) and Adam Sikora (asikora@buffalo.edu). Coordinatizing trivalent graphs embedded in finite type surfaces.

A web is a trivalent graph whose edges have been oriented so that every vertex is a source or sink, embedded in a surface $F$ so that no exterior regions are monogons, bigons, or quadrigons. If $F$ is a finite type surface with at least one puncture having negative Euler characteristic then $F$ admits an ideal triangulation. We give coordinates for isotopy classes of webs embedded in such a finite type surface based on the intersection of the web with an ideal triangulation. (Received September 08, 2020)