1147-53-456 Xin Zhou* (zhou@math.ucsb.edu), 92 Morse Ln, Princeton, NJ 08540, and Jonathan Zhu. Min-max theory for networks of constant geodesic curvature.

We prove that on a closed surface, for any c > 0, our min-max theory for prescribing mean curvature produces a solution given by a curve of constant geodesic curvature c which is almost embedded, except for finitely many points, at which the solution is a stationary junction with integer density. Moreover, each smooth segment has multiplicity one. (Received January 24, 2019)