Keisuke Teramoto* (teramoto@math.kobe-u.ac.jp), 1-1, Rokko-dai, Nada-ku, Kobe, 657-8501, Japan. On signs of Whitney cusps on Gauss maps of cuspidal edges with bounded Gaussian curvature. Preliminary report.

For a cuspidal edge with bounded Gaussian curvature, the set of singular points of the cuspidal edge coincides with the set of singular points of its Gauss map. In such a situation, we characterize positivity and negativity for a Whitney cusps on the Gauss map by geometric invariants of the cuspidal edge. Moreover, we show relation between the signs of the Gaussian curvature of the cuspidal edge and of the Whitney cusps on the corresponding Gauss map. (Received January 23, 2019)