1078-57-155 **Takahiro Yamamoto*** (yama.t@ip.kyusan-u.ac.jp), 3-1 Matsukadai 2-chome, Higashiku, Fukuoka, 813-8503, Japan. *Topology of the singular value sets of stable maps between surfaces.* Preliminary report.

In this talk, all maps and manifolds are class of C^∞. Let M and N be connected, orientable and closed surfaces, and $f\colon M \to N$ be a stable map in Whitney's sense. Then, locally f has fold and cusp singularities and globally the singular value set $f(S(f))$ is curves with isolated cusps and nodes. For a stable map $f\colon M \to N$, denote by $c(f)$ and $n(f)$ the numbers of cusps and nodes of the singular value set $f(S(f))$ respectively. We determine the minimal number $c+n$ among the singular value set of degree d stable maps $M \to N$ whose contours consist of one component. (Received December 05, 2011)