1077-05-1761 **Yanting Liang*** (yliang@smcm.edu), Mathematics and Computer Science Department, St. Mary's College of Maryland, St. Mary's City, MD 20686. *Mod* $(2p+1)$*-orientations in graphs.*

An orientation of an undirected graph G is a mod $(2p+1)$-orientation if under this orientation, the net out-degree at every vertex is congruence to zero mod $2p+1$. A graph H is mod $(2p+1)$-contractible if for any graph G that contains H as a subgraph, the contraction G/H has a mod $(2p+1)$-orientation if and only if G has a mod $(2p+1)$-orientation (thus every mod $(2p+1)$-contractible graph has a mod $(2p+1)$-orientation). Jaeger in 1984 conjectured that every $(4p)$-edge-connected graph has a mod $(2p+1)$-orientation. It has also been conjectured that every $(4p+1)$-edge-connected graph is mod $(2p+1)$-contractible. I will introduce some recent results on mod (2p+1)-orientations in graphs. (Received September 20, 2011)