1147-05-476   **Y Zhao*** (`yzhao@mail.ucf.edu`), Department of Mathematics, University of Central Florida, Orlando, FL 32816. *Upper bounds for $\Delta(\Sigma)$ where $-53 \leq \chi(\Sigma) \leq -8$.*

Vizing's Planar Graph Conjecture states that every planar graph of maximum degree at least 6 is class one. If for a surface Σ, we define $\Delta(\Sigma) = \max\{\Delta(G) : G$ is a connected class two graph of maximum degree Δ that is embedded in $\Sigma\}$, then one can claim that for a surface Σ, any connected graph of maximum degree Δ that is embedded in Σ is class one if $\Delta > \Delta(\Sigma)$. Further, Vizing's Planar Graph Conjecture also can be restated as $\Delta(S) = 5$ if S is a sphere. In this talk, we will focus on $\Delta(\Sigma)$ and upper bounds for $\Delta(\Sigma)$ for surfaces Σ of characteristic $-53 \leq \chi(\Sigma) \leq -8$. (Received January 24, 2019)