1086-VN-1220   **Jennifer McLoud-Mann*** (`jmcloud@uttyler.edu`), 3900 University Blvd., Tyler, TX 75799, and **Christina Graves** (`cgraves@uttyler.edu`), 3900 University Blvd., Tyler, TX 75799. *Side lengths of pseudoconvex fullerene patches.*

In this paper we consider fullerene patches with nice boundaries containing between one and five pentagonal faces. We find necessary conditions for the side lengths of such patches, and then prove these conditions are sufficient by constructing such patches. (Received September 20, 2012)