1047-20-461   **D. B. McReynolds***, 5734 S. University, Chicago, IL , and **Larsen Louder**. *Ranks of subgroups of free groups.*

In this talk, I will discuss a topological model that is useful for computing ranks of subgroups of free groups. This is joint with Larsen Louder. (Received February 03, 2009)