Meeting: 1005, Newark, Delaware, SS 1A, Special Session on Homotopy Theory (in Honor of Donald M. Davis's and Martin Bendersky's 60th Birthdays)

1005-55-43   **Yuli B. Rudyak*** (`rudyak@math.ufl.edu`), Department of Mathematics, University of Florida, 358 Little Hall, Gainesville, FL 32601. *Fundamental groups of compact Hausdorff spaces.* Preliminary report.

This is a joint work with Jed Keesling. We discuss which groups can be realized as the fundamental groups of compact Hausdorff spaces. In particular, we prove that the claim "every group can be realized as the fundamental group of a compact Hausdorff space" is consistent with the Zermelo - Fraenkel - Choice set theory. (Received January 21, 2005)