1078-20-158   **Sean Cleary*** (`cleary@sci.ccny.cuny.edu`), Department of Mathematics, The City College of New York, Convent Ave at 138th St, New York, NY. *Density of subgroups of Thompson's group F.*

There are a number of possible notions of constructing k-generator subgroups "at random" from a fixed group G. Given such a process, we can try to understand properties that a random subgroup has. In earlier work with Murray Elder, Andrew Rechnitzer and Jennifer Taback, we estimated densities of particular isomorphism classes of subgroups with respect to a method of selecting subgroups based upon selecting tree pair diagrams at random. Here, in work with Andrew Rechnitzer and Thomas Wong, we investigate the density of such subgroups which lie in abelian products inside Thompson's group F. (Received December 05, 2011)