Abstract Submitted
for the APR09 Meeting of
The American Physical Society

Measurements of Multijet Production at $\sqrt{s} = 1.96$ TeV in the D0 experiment SCOTT ATKINS, Louisiana Tech University, D0 COLLABORATION — We analyze the data set corresponding to an integrated luminosity of 0.7 fb^{-1} taken with the DZero detector at the Fermilab Tevatron collider. Recent measurements on multijet production in hadron collisions at $\sqrt{s} = 1.96$ TeV are presented. The measured observables are dijet angular distributions and the ratio of 3-jet to 2-jet cross-sections (R3/2). Dijet angular distributions are measured in different regions of dijet mass and are used to set limits on new physics models like quark compositeness and extra spatial dimensions. The ratio R3/2 is measured as a function of transverse jet momentum.

Elizaveta Shabalina
II. Physikalisches Institut, Universität Göttingen

Date submitted: 05 Jan 2009 Electronic form version 1.4