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**Dongwen Qi\*** ([qi@canes.gsw.edu](mailto:qi@canes.gsw.edu)), Department of Mathematics, Georgia Southwestern State University, 800 GSW State University Drive, Americus, GA 31709. *On the length function of Coxeter groups of type B*. Preliminary report.

We discuss a few formulas or inequalities on the length function of Coxeter groups of type B that explain how the lengths of group elements change along with the Bruhat order. (Received January 14, 2011)