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Luke Stephen Serafin* (lserafin@alumni.cmu.edu). *Cardinal Characteristics Above the Continuum*. Preliminary report.

Cardinal characteristics of the continuum provide an efficient means of summarizing combinatorial facts about ${}^\omega\omega$ and similar structures, and the relationships between these structures provide a rich theory and collection of open problems. It is natural to ask how this theory generalizes above the continuum, say by replacing ${}^\omega\omega$ by ${}^\kappa\kappa$. We explore such a generalization and prove that various inequalities between characteristics of the continuum generalize upward, some of these results being original. (Received September 22, 2015)