1120-05-306 József Balogh, Michelle Delcourt, Bernard Lidický and Cory Palmer* (cory.palmer@umontana.edu). Rainbow copies of $C_{4}$ in edge-colored hypercubes.
For positive integers $k$ and $d$ such that $4 \leq k<d$ and $k \neq 5$, we determine the maximum number of rainbow colored copies of $C_{4}$ in a $k$-edge-coloring of the $d$-dimensional hypercube $\mathcal{Q}_{d}$. We will also discuss a generalization of this problem concerning rainbow copies of $Q_{s}$ in a $k$-edge-coloring of $Q_{d}$. (Received February 23, 2016)

