1067-05-1738 **Zachary Kudlak*** (zachary.kudlak@msmc.edu), Mount Saint Mary College, 333 Powell Avenue, Newburgh, NY 12550, and **Luboš Thoma**. *On a (p,q)-edge coloring of K_n.*

For integers $p \leq n$ and $q \leq \binom{p}{2}$ an edge coloring of K_n is said to be a (p,q)-edge coloring if for every induced subgraph on p vertices there are at least q colors used on its edges. Let $f(n,p,q)$ be the minimum number of colors needed in such an edge coloring. We will show that if $p \geq 6$ and $q = 2\lceil \log_2 p \rceil - 4 + \left\lceil \frac{4p}{2^{\lceil \log_2 p \rceil}} \right\rceil$, then $f(n,p,q) \leq e^{O(\sqrt{\log n})}$. In particular the case for $p = 7$ yields $f(n,7,6) \leq e^{O(\sqrt{\log n})}$. (Received September 21, 2010)