Summary: An equitable total-coloring of a graph $G$ is a proper total-coloring such that the number of vertices and edges in any two color classes differ by at most one. Let $\chi''(G)$ and $\Delta$ denote the total chromatic number and the maximum degree of a graph $G$, respectively. H.-L. Fu [Congr. Numerantium 102, 111–119 (1994; Zbl 0837.05062)] conjectured that for any integer $k \geq \max\{\chi''(G), \Delta + 2\}$, $G$ is equitably total-$k$-colorable. In this paper, we confirm this conjecture for the case $\Delta = 3$.

Keywords: subcubic graph; total coloring; equitable coloring
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