\{C_3, C_4\}-factor of a graph

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Abstract

Let $n$, $s$ and $t$ be three integers with $s \geq 1$, $t \geq 0$ and $n = 3s + 4t$. Let $G$ be a graph of order $n$ such that the minimum degree of $G$ is at least $(n + s)/2$. Then $G$ contains a 2-factor with $s + t$ components such that $s$ of them are triangles and $t$ of them are quadrilaterals.