

Equitable total coloring of corona of cubic graphs

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The minimum number of total independent sets of $V \cup E$ of graph $G(V, E)$ is called the *total chromatic number* of G , denoted by $\chi''(G)$. If difference of cardinalities of any two total independent sets is at most one, then the minimum number of total independent partition sets of $V \cup E$ is called the *equitable total chromatic number*, and denoted by $\chi''_{\equiv}(G)$.

In the talk we consider equitable total coloring of corona of cubic graphs, $G \circ H$. It turns out that, independly on equitable total chromatic numbers of G and H , equitable total chromatic number of corona $G \circ H$ is equal to $\Delta(G \circ H) + 1$. Thereby, we confirm TCC and ETCC conjectures for coronas of cubic graphs. As a direct consequence we get that all coronas of cubic graphs are of Type 1.