Adjacent Vertex Distinguishing Total Coloring of Corona Product of Graphs

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An adjacent vertex distinguishing total $k$-coloring $f$ of a graph $G$ is a proper total $k$-coloring of $G$ such that no pair of adjacent vertices has the same color sets, where the color set at a vertex $v$, $C^G_f(v)$, is $\{f(v)\} \cup \{f(vu) | u \in V(G), vu \in E(G)\}$.

In 2005 Zhang et al. posted the conjecture (AVDTCC) that every simple graph $G$ has adjacent vertex distinguishing total $(\Delta(G) + 3)$-coloring.

In this talk we consider adjacent vertex distinguishing total $k$-coloring of many coronas, in particular for generalized, simple and $l$-coronas of graphs.

References

[1] H. Hanna Furmańczyk, and Rita Zuazua, Adjacent Vertex Distinguishing Total Coloring of Corona Product of Graphs. To sent.