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On $(4,1)^{*}$-choosability of toroidal graphs without chordal 7-cycles and adjacent 4-cycles

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Abstract: A graph $G$ is called $(k, d)^{*}$-choosable if for every list assignment $L$ satisfying $|L(v)|=k$ for all $v \in V(G)$, there is an $L$-coloring of $G$ such that each vertex of $G$ has at most $d$ neighbors colored with the same color as itself. In this paper, it is proved that every toroidal graph without chordal 7 -cycles and adjacent 4 -cycles is $(4,1)^{*}$-choosable.

Keywords: toroidal graph; defective choosability; chord
AMS Subject Classification: 05C15, 05C78

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