

Total time: - 0(2 n 0(1))

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Kowshik Ray 1765300 22

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partition(C1, C2, -..., CK) = Yveven (Ovec, AV&GA... V&CK) V(U¢C, NUECN-...U¢CK)

V(U&C, NU4C2 NUBC3 ... NUECZ)

V(U&GNU4---- NUEGK)

(FeeE(cn) inc(u,e) 1 inc(u,e)) dute 1 (U, V) =

The state of the s Jugvan) dist 1 (u, w) 1 dist 1 (u,v)

dist 2 (U, V)

partition (C1, C2), CK) ^ (Yu, vec, 7 dist2(v, v) 1 7 dist2(v, v) (Yu, v e(2 7 dist 2(v, v)) ~ rdist2(v, v)) ~ Q(C1, C2, ..., CK) =

(40, v & Cx

(Yusc, Yusca 7 dist 2 (VIV)) 1

(tue c2 tre c3 Tdist Z(V,V)) 1

(tue Cx-1 tue Cx Todist I (U,V)).

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k per parameters accepting L(2,1)-K-coloning By cowalles theorem, there

FPT that verifies of in tin

for some computable function of

the is treewidth. Thus, p + -tw- L(2,1)- coloring