Erratum to Parameterized Analysis of Reconfigurable Broadcast Networks

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The proof of Theorem 2 published in \cite{Balasubramanian22} contains a mistake, kindly pointed out by Nicolas Waldburger.

The exact error is the following: to bound the norm of set $\mathcal{M}$, a configuration $C \in \mathcal{M}$ is considered where $C(q) \leq v(q) + N'$, $\forall q$ for some $N'$. A configuration $C_N$ is then defined such that $C_N(q) = \min(C(q), v(q) + N)$ for all $q$ with the $N$ given by Theorem 1. The proof then states that $C_N \in J_{\theta} K_N$, which is only possible if $C_N(q) \geq v(q) + N$ for all $q$. This is wrong because $C(q)$ may be smaller than $v(q) + N$ on some $q$, entailing $C_N(q) < v(q) + N$ and $C_N \notin J_{\theta} K_N$.

The results of the original paper up until Theorem 2 remain valid. We are currently working on a solution.

References