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Equality is attained if and only if any subgraph from $L^{rs}_{N-R}(G(S(M)))$ *contains no edge* (i, i) *such that* $d_{ii} > 0$ *and* $|L^{rs}_{N-R}(G(S(M)))| = |L^{rs}_{N-R}(G(S(M + D)))|$.

Proof. $M = S(A)$ where A is non-negative and $M + D = S(A + D)$. The theorem follows immediately from (*).

References

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[3] *Wai-Kai Chen:* On directed graph solutions of linear algebraic equations, SIAM Review *9* (1967), 692—707.

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