Decomposing Complete Graphs into Unicyclic Tripartite Graphs with |E(G)| = 7and $7 \le |V(G)| \le 8$

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We show that the complete graph K_n can be decomposed into a unicyclic tripartite graph with seven edges and seven or eight vertices whenever $n \equiv 0, 1 \pmod{14}$.

Keywords: graph decomposition, ρ -tripartite labeling, 1-rotational ρ -tripartite labeling