Abstract

In this paper, various properties of particular type of Hamiltonian graph and its edge-disjoint Hamiltonian circuits have been discussed. It has been found that the intersection graph obtained from Euler Diagram is not Hamiltonian. The graph $H(3m + 7, 6m + 14)$ for $m \geq 1$, which is planner, regular of degree four, non-bipartite but Hamiltonian graph, has perfect matching 4 with non-repeated edge for simultaneous changes of $m = 2n+1$ for $n \geq 0$.

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