The Edge-Pancyclicity of Pancake Graph

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Pancyclicity was introduced by Bondy in 1971. A graph $G$ with vertex set $V(G)$ and edge set $E(G)$ is pancyclic if it contains cycles of lengths $l$, for $3 \leq l \leq |V(G)|$. This concept has been extended to edge-pancyclicity. If every edge of $G$ is in a cycle of every length, $G$ is edge-pancyclic. If every edge lies on cycles of all lengths ranging from $k$ to $|V(G)|$, $G$ is $k$-edge-pancyclic. In this talk, we will show that the $n$-dimensional pancake graph is 7-edge-pancyclic.

Keywords: edge-pancylic, pancake graph, interconnection networks.