



HALF-DAY SEMINAR ON GRAPH THEORY

09 AUGUST 2024 | 10.30 AM-5.00PM

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NON-LOCAL METRIC DIMENSION
OF SOME FAMILIES GRAPHS

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ABSTRACT

Any u and v are resolved by R if there exists $r \in R$ such that $d_G(u, r) \neq d_G(v, r)$. A set R such that each pair of vertices in G is resolved by R is a resolving set of G . The minimum resolving set of G is called basis of G , its cardinality is called metric dimension of G denoted by $\dim(G)$. The set R is called a local resolving set of G . The local metric basis of G refers to those local resolving sets R with the smallest cardinality, which is termed as the local metric dimension of G and represented by $\dim_l(G)$. Let R be a non-local resolving set, then each pair of non-adjacent vertices has different representation. The minimum cardinality of the non-local resolving set of G is called non-local metric dimension. In this talk, the non-local metric dimension of unicyclic graph, triangular book graph, and sun graph are determined.

ABSTRACT

We consider a graph $G(V, E)$ is simple and connected graph, where V and E respectively a vertex set and edge set of G . Suppose $f: V(G) \rightarrow \{1, 2, \dots, k\}$ is called vertex irregular k -labeling and $w: V(G) \rightarrow \mathbb{N}$ where $w(u) = \sum_{v \in N(u)} f(v)$, f is called local irregularity vertex coloring. The minimum of cardinality local irregularity vertex coloring is called the chromatic local irregular number, denoted by $\chi_{lis}(G)$. Let $w: V(G) \rightarrow \mathbb{N}$ where $w(u) = \sum_{v \in N(u)} f(v)$, f called local irregularity b -coloring if:

- $\text{opt}(f) = \min\{\max\{f_i\}, f_i \text{ vertex irregular label}\}$,
- for every $uv \in E(G)$, $w(u) \neq w(v)$,
- every color class has a representative adjacent to at least on vertex in each of the other color classes.

The local irregular b -chromatic number denoted by $\chi_{li}(b-lis)(G)$ is largest of k such that G admits a local irregularity b -coloring.



LOCAL IRREGULAR b -CHROMATIC
NUMBER OF GRAPHS

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THE METRIC COLORING OF
RELATED WHEEL GRAPHS

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ABSTRACT

Suppose graphs are finite and connected graph. Let $f: V(G) \rightarrow \{1, 2, \dots, k\}$ be a vertex coloring of a graph G where two adjacent vertices may be colored the same color. Consider the color classes $\Pi = \{C_1, C_2, \dots, C_k\}$. For a vertex $v \in G$, representation color of v is the k -vector $r(v | \Pi) = \{d(v, C_1), d(v, C_2), \dots, d(v, C_k)\}$, where $d(v, C_i) = \min\{d(v, c); c \in C_i\}$. If $r(u | \Pi) \neq r(v | \Pi)$ for every two adjacent vertices u and v of G , then f is called a metric coloring of G . The minimum k for which G has a metric k -coloring is called the metric chromatic number of G and is denoted by $\mu(G)$. In this talk, the metric chromatic numbers of related wheel graphs namely double wheel graph, web graph, friendship graph and helm graph are studied.

Seminar On Graph Theory

Seminar on graph theory



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