



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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MATHEMATICS EDUCATION DEPARTMENT,
UNIVERSITAS ZAINUL HASAN GENGONG,
INDONESIA

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

D. Cvetkovic



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