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INSPEM'S ONLINE WEEKLY SEMINAR

DATE : 19 NOVEMBER 2021 (FRIDAY)

TIME : 3.15 pm (MALAYSIA) | 10.45 am (IRAN)

MEDIUM : VIDEO CONFERENCE (ZOOM)



Meeting ID: 960 1464 7762

Passcode: 788910

Prof. Dr Ali Reza Ashrafi

Department of Pure Mathematics,
Faculty of Mathematical Sciences,
University of Kashan, Kashan, I. R. Iran

**Topic: Degree-Based Topological Indices of
Chemical Graphs**

ABSTRACT

A simple graph G in which all degrees are at most four is called a chemical graph and the set of all such graphs is denoted by *ChemGraphs*. A real function α on the set *ChemGraphs* is called a graph invariant, if for all isomorphic chemical graphs $G, H \in \text{ChemGraphs}$, we have $\alpha(G) = \alpha(H)$. A graph invariant that can be computed in terms of the degree of vertices is called a *degree-based graph invariant*. The aim of this talk is to report our recent results on some degree-based graph invariants. Some open questions are also presented.

Keywords: Chemical graph, degree based invariant.

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