

Irregularity of graphs

Ali Reza Ashrafi¹ and Ali Ghalavand²

¹Department of Pure Mathematics, Faculty of Mathematical Sciences, University of Kashan,
Kashan 87317-53153, I. R. Iran, ashrafi@kashanu.ac.ir

²Department of Pure Mathematics, Faculty of Mathematical Sciences, University of Kashan,
Kashan 87317-53153, I. R. Iran, alighalavand@grad.kashanu.ac.ir

Let G be a graph with vertex set $V(G)$. The Total irregularity of G is defined as $irr_t(G) = \sum_{\{u,v\} \subseteq V(G)} |\deg_G(u) - \deg_G(v)|$, where $\deg_G(v)$ is the degree of the vertex v of G . This graph parameter was introduced by Abdo and Dimitrov in 2014. In this talk, we report our recent results on values of this graph parameter on some classes of graphs.

References

- [1] H. Abdo and D. Dimitrov, The total irregularity of graphs under graph operations, *Miskolc Math. Notes* **15**(1) (2014), 3–17.