

1106-VR-519

Ramanjit K. Sahi* (sahir@apsu.edu) and **Noureen A. Khan.** *Ascending Number of Virtual Link Diagrams.*

We define Ascending number $a_v(D)$ of virtual link diagrams D as the minimum number of different crossings that are needed to change the link diagram to a monotone diagram over all based ordered oriented diagrams. We show that

$$a_v(D) \leq C(D) - W(D),$$

where $C(D)$ is the number of crossing of D and $W(D)$ is the warping degree of D . Furthermore, the equality holds if D is a balanced diagram. The relationship is illustrated by sequence of examples. (Received September 01, 2014)