

1159-13-20

**Delio Jaramillo** and **Rafael H Villarreal\*** (vila@math.cinvestav.mx). *The v-number of edge ideals.*

The aim of this work is to study the v-number of edge ideals of clutters. We relate the v-number with the regularity of edge ideals and classify  $W_2$  graphs. If the edge ideal of a graph has second symbolic power Cohen–Macaulay, we show that the graph is edge-critical. (Received June 29, 2020)