

---

**JENNIFER BIERMANN**, Cornell University

*Cellular structure of the minimal free resolutions of edge ideals*

We say that a CW-cellular complex supports the minimal free resolution of a monomial ideal if there is a one to one mapping from the basis of the minimal free resolution to the cells of the CW-complex so that the differential maps are preserved. We present a CW-cellular complex which supports the minimal free resolution of the edge ideal of the complement of the  $n$ -cycle.