

1096-05-1807 **P. Mark Kayll*** (mark.kayll@umontana.edu). *Two chromatic conjectures: one for vertices, one for edges.*

Erdős, Faber and Lovász conjectured that a pairwise edge-disjoint union of n copies of the complete graph K_n has chromatic number n . This seeming parlour puzzle has eluded proof for more than four decades, despite attack by a few of the past century's more powerful combinatorial minds. Regarding edges, the 'list-colouring conjecture' asserts, loosely, that list-colouring is no more difficult than ordinary edge-colouring. Probably first proposed by Vizing, this notorious conjecture—also having garnered the attention of leading combinatorialists—has itself defied proof for almost forty years. Like any good mature conjecture, both of these ones have spawned interesting mathematics vainly threatening their resolution. This talk will consider some of the related partial results in concert with the conjectures themselves. (Received September 16, 2013)