1051-13-71 Manoj Kummini^{*} (nkummini^{@math.purdue.edu}), 150 N University St., West Lafayette, IN 47907-2067. Arithmetic Rank of Unmixed Bipartite Edge Ideals.

Arithmetic rank of an ideal I in a ring R is the least number s such that there exists elements $a_1, \ldots, a_s \in R$ such that $\sqrt{I} = \sqrt{(a_1, \ldots, a_n)}$. We compute the arithmetic rank of unmixed bipartite edge ideals, and show that, the arithmetic rank of certain Cohen-Macaulay edge ideals equals their height. (Received August 13, 2009)