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Henrik Bresinsky* (bresinsky@math.umaine.edu), Dept. of Math. and Stat., 414 Nv Hall,
Orono, Maine 04469-5752. *The k -Buchsbaum property for some polynomial ideals.*

k -Buchsbaum modules were introduced by P. Schenzel, N.V. Trung and N.T. Cuong in: 1. Verallgemeinerte Cohen-Macaulay Moduln, Math. Nachrichten 85 (1978), 57-73, 2. Toward a theory of generalized Cohen- Macaulay moduls, Nagoya Math. Journal 102 (1986), 1-49. We will discuss an algorithm to determine if homogeneous binomial ideals with variables as a system of parameters are or are not k - Buchsbaum for some k . (Received December 28, 2005)