1051-13-113 **Tai Ha***, Department of Mathematics, 6823 St. Charles Avenue, New Orleans, LA 70118. Associated primes of powers of square-free monomial ideals.

Let J be a square-free monomial ideals in a polynomial ring R. I will discuss how to describe associated primes of powers of J. This problem turns out to be closely related to the coloring properties of certain hypergraph. (Received August 20, 2009)