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Adam Van Tuyl*, Department of Mathematical Sciences, Lakehead University, Thunder Bay, Ontario P7B5E1, Canada, and **Chris Francisco** and **Tai Ha**. *A conjecture about coloring graphs and connections to associated primes of ideals.*

In this talk, I will introduce a conjecture about critically chromatic graphs. I will explain why a solution to this conjecture would show that the associated primes of square-free monomial ideals of height two have the persistence property. This is joint work with C.A. Francisco and H.T. Ha. (Received January 14, 2010)