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Tom Marley* (tmarley1@unl.edu). *On FGFC rings.*

In a 1968 paper, Ohm and Pendleton examine several topological properties that may be possessed by the prime spectrum of a commutative ring R . One of these properties, which they call FC for ‘finite components’, is that every closed subset of $\text{Spec } R$ has a finite number of irreducible components. Thus, R has FC if and only if every ideal I has a finite number of minimal primes. In general, this property does not pass to polynomial ring extensions. In this talk, we examine a weaker property called $FGFC$ which says that the set of minimal primes over any finitely generated ideal is finite. We show that if R is $FGFC$ then so is $R[X]$, where X is a (possibly infinite) set of indeterminates over R . (Received September 02, 2012)