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Tony Joseph Puthenpurakal* (tputhen@gmail.com), Department of Mathematics,
IIT-Bombay, Powai, Mumbai, 400076, India. *Associated primes of Local cohomology modules over
Regular rings.*

Let R be an excellent regular ring of dimension d containing a field K of characteristic zero. Let I be an ideal in R . We show that $Ass H_I^{d-1}(R)$ is a finite set. As an application we show that if I is an ideal of height g with $height Q = g$ for all minimal primes of I then for all but finitely many primes $P \supseteq I$ with $height P \geq g + 2$, the topological space $Spec^\circ(R_P/IR_P)$ is connected. (Received December 19, 2014)