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Sean Sather-Wagstaff* (ssather@clermson.edu). *Associated Primes of Derived Local Cohomology*. Preliminary report.

Let I be a proper ideal of a (commutative noetherian) ring R . A well-known question of Huneke asks whether the set of associated primes of each local cohomology module $H_I^i(R)$ is finite. Counterexamples to this question were constructed by Singh, then improved by Katzman and Singh-Swanson. In this talk, we will discuss a variation on this question which *is* true: the derived local cohomology complex $\mathbf{R}\Gamma_I(R)$, the complex with cohomology defining the local cohomology modules $H_I^i(R)$, has only finitely many associated primes in the sense of L. W. Christensen. (Received September 05, 2016)