

1124-13-30

**Craig Huneke\*** ([huneke@virginia.edu](mailto:huneke@virginia.edu)). *Local cohomology over direct summands of regular rings*. Preliminary report.

This talk will report on joint work with Josep Alvarez-Montaner and Luis Nunez-Betancourt concerning the D-module structure of local cohomology modules with support in an arbitrary ideal in a direct summand of a polynomial or power series ring. We find that all such local cohomology have finite length as a D-module, and use this point of view to prove they have only finitely many associated primes. Other applications will be discussed as time permits. (Received August 05, 2016)