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*Double coinvariants and affine Schubert calculus.*

I'll discuss a new result with Alexei Oblomkov which gives a filtration by submodules of the double coinvariant algebra over one of the sets of variables. We find an explicit presentation of these subquotients, a connection with the homology of the affine flag variety, and a monomial basis which realizes the Haglund-Loehr conjecture, first proved by myself and Mellit. (Received February 12, 2018)