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**Gabriel C. Drummond-Cole\*** ([gabriel@math.northwestern.edu](mailto:gabriel@math.northwestern.edu)). *A Poincaré polynomial governing Lie bialgebras*. Preliminary report.

A Lie bialgebra is a vector space which is simultaneously a Lie algebra and a Lie coalgebra such that the bracket and cobracket satisfy a certain compatibility relation. Understanding the spaces of possible operations that can be “built out of” the bracket and cobracket is important for homotopy theory and has connections to geometry. In this talk, I’ll tell you the dimensions of some of these spaces of operations, indicate the representation theory used to obtain them, and mention a connection to Wilson quotients. (Received September 25, 2012)