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Louis A. Levy* (Louis.Levy@millersville.edu), Department of Mathematics, Millersville University, P.O. Box 1002, Millersville, PA 17551-0302. *Multipliers for the Nilpotent Series of Strictly Upper Triangular Matrices*. Preliminary report.

A Lie algebra multiplier is the Lie algebra analogue of group theory's Schur multiplier. Multipliers and their properties in the Lie algebra setting is a recent area of study. By definition a multiplier is central, so the primary focus for classifying them is computing their dimensions. In this talk we will study the techniques necessary for computing the dimensions of every Lie algebra in the lower central series of strictly upper triangular matrices. The closed form result is a set of six polynomial answers in two variables: the size of the matrices and the position in the series. (Received September 22, 2009)