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## P. Ghimire

Dept. of Mathematics and Physical Sciences, Louisiana State University, Alexandria, U.S.A. pghimire@lsua.edu

## H. Huang

Dept. of Mathematics and Statistics, Auburn University, Auburn, U.S.A. huanghu@auburn.edu

## Derivations of the Lie Algebra of Strictly Block Upper Triangular Matrices

Let  $\mathcal{N}$  be the Lie algebra of all  $n \times n$  strictly block upper triangular matrices over a field  $\mathbb{F}$ . Let  $\text{Der}(\mathcal{N})$  be Lie algebra of all derivations of  $\mathcal{N}$ . In this paper, we describe the elements and the structure of  $\text{Der}(\mathcal{N})$ . We also determine the dimensions of component subalgebras of  $\text{Der}(\mathcal{N})$ .

**Keywords**: Derivation, nilpotent Lie algebra, strictly block upper triangular matrix.

MSC: 17B40, 16W25, 15B99, 17B05.