



**REPRESENTATION OF LIE ALGEBRA  $T_3$  AND  
2-VARIABLE WRIGHT FUNCTIONS**

Tadayoshi Takebayashi

Received November 27, 2019

**Abstract**

Dattoli and Torre [G. Dattoli and A. Torre, Theory and applications of generalized Bessel functions, Aracne, Roma, 1996] defined the Wright functions  $C_n(x|r)$ . We define 2-variable Wright functions and using them, we give a representation of the 3-dimensional Lie algebra  $T_3$  [Willard Miller, Jr., Lie theory and special functions, Mathematics in Science and Engineering, Vol. 43, Academic Press, New York and London, 1968].

**Keywords and phrases:** 2-variable Wright functions, Lie algebra  $T_3$ .

**Pioneer Journal  
of Mathematics  
and Mathematical  
Sciences**



**Pioneer Scientific  
Publisher**