

## **Applications of the Operator T in** *q***-Polynomials**

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ARTICLE INFO	ABSTRACT
Keywords	In this paper, we define the polynomials $V_n(a, b, c, f, x, y)$ . In order to
Cauchy polynomials,	determine the generating function, Rogers' formula, Mehler's formula,
bivariate Rogers-	and their extensions for polynomials $V_n(a, b, c, f, x, y)$ , we utilize the
Szegö polynomials,	q-exponential operator $T$ . Some results for the Cauchy polynomials
the generating	$P_n(x,y)$ and the bivariate Rogers-Szegö polynomials $h_n(x,y q)$ are
function, Rogers	obtained by inserting special values into the identities of the
formula, Mehler's	polynomials $V_n(a, b, c, f, x, y)$ .
formula	

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