

Nour-Eddine Fahssi  
*Some Identities Involving Polynomial Coefficients,*  
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**Abstract**

By polynomial (or extended binomial) coefficients, we mean the coefficients in the expansion of integral powers, positive and negative, of the polynomial  $1 + t + \cdots + t^m$ ;  $m \geq 1$  being a fixed integer. We will establish several identities and summation formulas parallel to those of the usual binomial coefficients.