POLYNOMIAL IDENTITIES INVOLVING RASCAL TRIANGLE

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ABSTRACT. Your abstract here.

CONTENTS

1. DEFINITIONS

Definition 1.1. *Generalized rascal number*

$$\binom{n}{k}_i = \sum_{m=0}^{i} \binom{n-k}{m}\binom{k}{m} \tag{1.1}$$

Definition 1.2. $(1,q)$-*Binomial coefficient*

$$\begin{bmatrix} n \\ k \end{bmatrix}^q = \begin{cases} q & \text{if } k=0, n=0 \\ 1 & \text{if } k=0 \\ 0 & \text{if } k>n \\ \begin{bmatrix} n-1 \\ k \end{bmatrix}^q + \begin{bmatrix} n-1 \\ k-1 \end{bmatrix}^q \end{cases} \tag{1.2}$$

2. Introduction

3. Conclusions

Conclusions of your manuscript.

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