Title: Consecutive binomial coefficients satisfying a quadratic relation

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In this note, we study the diophantine equation
\[ A\binom{n}{k}^2 + B\binom{n}{k+1}^2 + C\binom{n}{k+2}^2 = 0 \]
in positive integers \((n,k)\), where \(A\), \(B\) and \(C\) are fixed integers.

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