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Title: Combinatorial Diophantine equations – the genus 1 case

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In this paper some Diophantine equations concerning binomial coefficients, power sums and product of consecutive integers are solved. The equations are reduced to genus 1 equations or Mordell-type equations and solved with the so-called *Ell*-log method of Stroeker and Tzanakis and with the Magma computational algebra system.

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