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**On a coprime factorization of square triangular numbers.**

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The square roots of square triangular numbers,  $U_n$ , are split into two special coprime factors called the 'major' and the 'minor' factor, denoted by  $\mu_n$  and  $\lambda_n$ . These factors on their own form two distinct sequences. Explicit formulae for  $\mu_n$  and  $\lambda_n$  are established, in purely algebraic form as well as in hyperbolic function form. A large number of sundry properties of  $\mu_n$  and  $\lambda_n$  are established. Finally, an application of Major factors in obtaining a reduction formula for  $U_n$  is demonstrated. (orig.)

*Classification:* F60

*Keywords:* square triangular numbers; hyperbolic functions

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