Abstracts

On the Use of Shanks's Transform to Accelerate the Summation of Slowly Converging Series (Short Papers)

It is shown that the application of Shanks' transform results in accelerating the convergence of slowly converging series. The transform is applied to a periodic Green's function involving a single summation. The convergence properties of this series are reported for the "on-plane" case, in which the series converges extremely slowly. Numerical results indicate that by employing Shanks's transform the computation time can he reduced by as much as a factor of 200.

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