

Once again on de Moivre--Laplace CLT

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We discuss an elementary approach to proving the de Moivre--Laplace CLT with $p=1/2$. We first explain that the result is natural and then rigorously prove it. Apart from the new approach what seems to be a new result is that the rate of normal approximation becomes dramatically wrong if the number of successes differs from its average by more than n to the power $3/4$ (and not $1/2$).