

**ZMATH 2015f.00891**

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**The lazy man's binomial distribution.**

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Summary: We consider the approximation of one particular probability model by another for which the associated sampling procedure requires a little less effort. Since this approximation arises through sheer laziness rather than for any sound mathematical reasons, we wanted to investigate the price we would have to pay in terms of the sizes of the relative errors that arise under various scenarios associated with these distributions. Both exact and asymptotic results are obtained.

*Classification:* K60 N50

*Keywords:* binomial distribution; probability; approximation