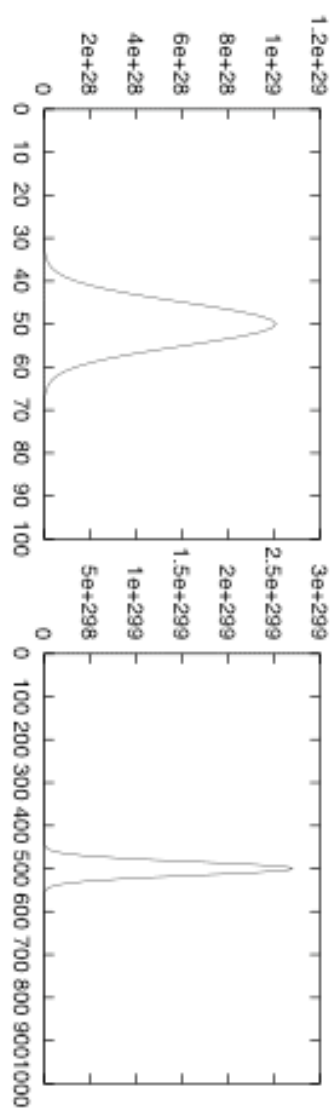


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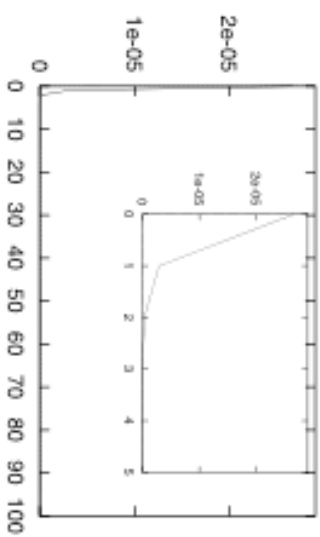
 $N = 100$  $N = 1000$ 

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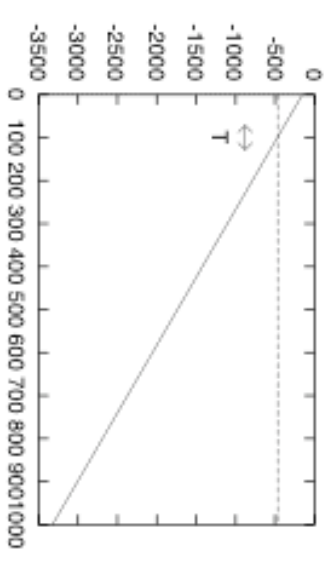
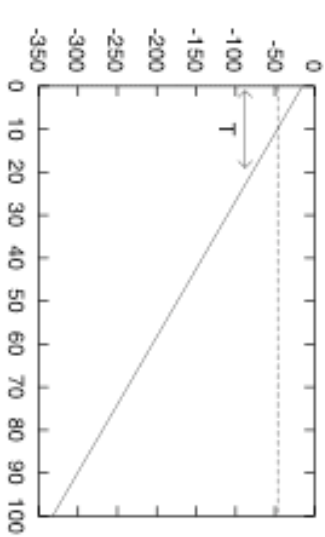
$$n(r) = \binom{N}{r}$$



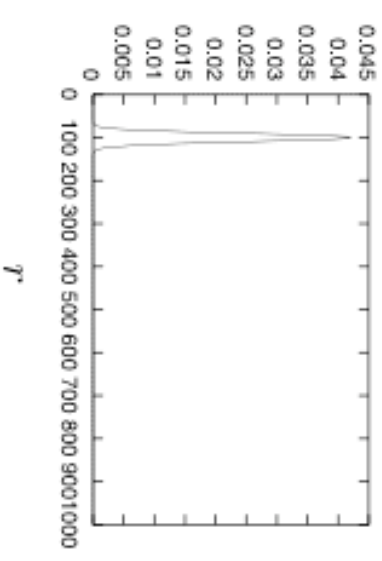
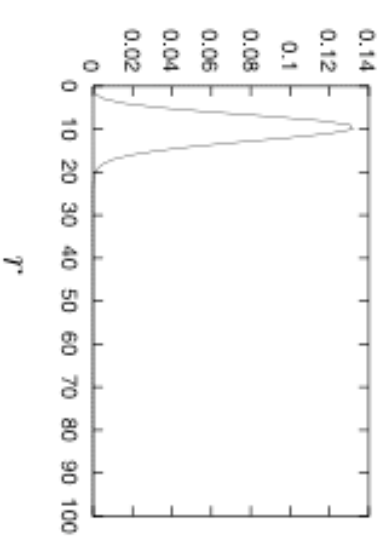
$$P(\mathbf{x}) = p_1^r (1 - p_1)^{N-r}$$



$$\log_2 P(\mathbf{x})$$



$$n(r)P(\mathbf{x}) = \binom{N}{r} p_1^r (1 - p_1)^{N-r}$$

 $r$  $r$ 

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