Computing Pi as Slowly as Possible

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$$\frac{\binom{2n}{n}}{4^n} = \frac{1}{\sqrt{n}}\frac{1}{\sqrt{\pi}} \cdot$$

$$\begin{gathered}(1 - 1/8\,n^{-1} + \frac{1}{128}\,n^{-2} + \frac{5}{1024}\,n^{-3} - \frac{21}{32768}\,n^{-4} - \frac{399}{262144}\,n^{-5} \\ + \frac{869}{4194304}\,n^{-6} + \frac{39325}{33554432}\,n^{-7} - \frac{334477}{2147483648}\,n^{-8} - \frac{28717403}{17179869184}\,n^{-9} + \frac{59697183}{274877906944}\,n^{-10} \\ + \frac{8400372435}{2199023255552}\,n^{-11} - \frac{34429291905}{70368744177664}\,n^{-12} - \frac{7199255611995}{562949953421312}\,n^{-13} \\ + \frac{14631594576045}{9007199254740992}\,n^{-14} + \frac{4251206967062925}{72057594037927936}\,n^{-15} - \frac{68787420596367165}{9223372036854775808}\,n^{-16} \\ - \frac{26475975382085110035}{73786976294838206464}\,n^{-17} + \frac{53392138323683746235}{1180591620717411303424}\,n^{-18} \\ + \frac{26275374869163335461975}{9444732965739290427392}\,n^{-19} - \frac{105772979046693606062363}{302231454903657293676544}\,n^{-20} + O(n^{-21}))\end{gathered}$$

References

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