Expressing Gravity
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Abstract:
The following equation was found by a comprehensive search using a GPU, trying every combination of constants that could be equal to the Universal Gravity constant. During the search, roughly 56000 equations were identified that had the correct units and then a handful of those equations where found to have low error rates of roughly one part in a trillion, when compared to the original constants. The simplest equation of the high accuracy set is presented in this paper.

Main Body:

\[
G = \frac{10390 \ e^2 R^{73} w^{73}}{23 \ A^2 c^{68} N^{73} h^{74}}
\]  \hspace{1cm} (1)

\(c\) is the Speed of Light.
\(h\) is the Planck constant.
\(A\) is the Ampere constant. (1 C/s)
\(R\) is the Gas constant.
\(G\) is the Universal Gravity constant.
\(N\) is Avogadro’s number.
\(e\) is the Elementary Charge constant.
\(w\) is the Wien’s displacement constant.

If the units are correct and the values are correct, what other criteria is needed?