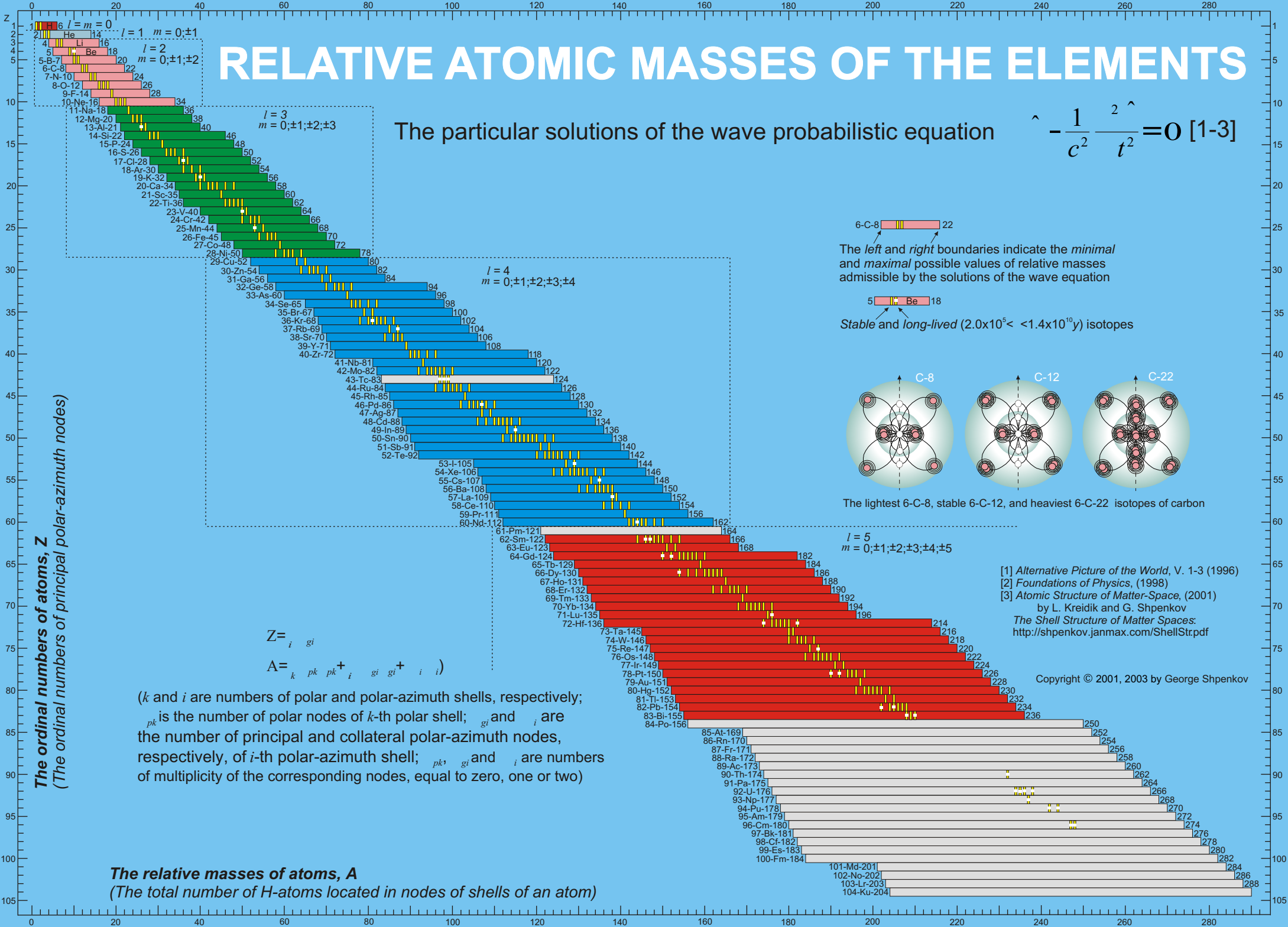


# RELATIVE ATOMIC MASSES OF THE ELEMENTS

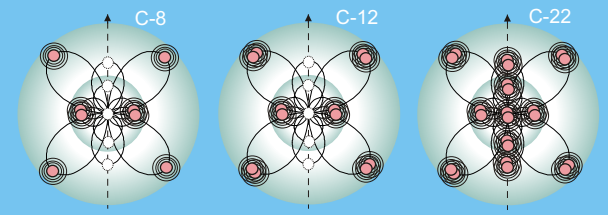
The particular solutions of the wave probabilistic equation

$$\hat{H} - \frac{1}{c^2} \frac{\partial^2 \hat{\psi}}{t^2} = 0 \quad [1-3]$$



6-C-8  
The left and right boundaries indicate the minimal and maximal possible values of relative masses admissible by the solutions of the wave equation

5-Be-18  
Stable and long-lived ( $2.0 \times 10^5 < t < 1.4 \times 10^{10}$  y) isotopes



The lightest 6-C-8, stable 6-C-12, and heaviest 6-C-22 isotopes of carbon

$$Z = \sum_i g_i$$

$$A = \sum_k p_k + \sum_i g_i + \sum_i i$$

( $k$  and  $i$  are numbers of polar and polar-azimuth shells, respectively;  
 $p_k$  is the number of polar nodes of  $k$ -th polar shell;  $g_i$  and  $i$  are the number of principal and collateral polar-azimuth nodes, respectively, of  $i$ -th polar-azimuth shell;  $p_k$ ,  $g_i$  and  $i$  are numbers of multiplicity of the corresponding nodes, equal to zero, one or two)

[1] *Alternative Picture of the World*, V. 1-3 (1996)  
 [2] *Foundations of Physics*, (1998)  
 [3] *Atomic Structure of Matter-Space*, (2001) by L. Kreidik and G. Shpenkov  
*The Shell Structure of Matter Spaces:*  
<http://shpenkov.janmax.com/ShellStr.pdf>

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**The relative masses of atoms, A**  
 (The total number of H-atoms located in nodes of shells of an atom)