## Structural Wave-Packet Tessellation of the Periodic Table and Atomic Constitution in real R<sup>3</sup>×SO(3) Configuration Space

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Abstract. We describe a structural wave-packet layout in real  $R^3 \times SO(3)$  configuration space of the SU(3) Lie algebra by a hierarchically expanding isometric vector matrix organization of its infinitesimal "straight line of length equaling zero" partial derivative root vectors, which in an axial triple helix trajectory hybridize with the parallelepiped outline of the  $R^3$  frame enveloping them into a merged worldline train whose close-packing recursive advance hierarchically expands around a central unit pivot so as to faithfully falsify not only the elementary relations including the periodic table between the nucleon and the electron and in a complementary surface geodesics also the muon.