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A quantum connection in the periodic and roberts-janet tables

The time-independent quantum states in the Periodic Table are inverted to accommodate spatial variation relative to the nucleus. From groups, U(1)xSU(2)xSU(3) including the Pauli principle the mathematics of quantum physics from the standard model produces two sets of time independent quantum states in the gauge potential $n(n+1)$ and $n(n-1)$ where n is the principal quantum number. Oscillations between these states result in a one-to-one mapping between this quantum mechanical table and the Roberts-Janet Nuclear Periodic Table by interpretation of positive n values for condensed matter and negative n values for plasma prior to fusion. A model of string theory at the nuclear end of the table is discussed merging into quantum loop gravity at the condensed matter end of the table. Having discussed a possible route back to the big bang, the structure of both the Periodic and Roberts-Janet Tables is analyzed including repeating patterns of 8,18,32 and the energy orbitals of the transition and Lanthanide/Actinide elements.

Biography

John Owen Roberts graduated in 1969 with a BSc (Hons) Physics from The University of Liverpool. He has been an Open University Tutor for 30 years and a private tutor of maths and science. He is the author of the book Those Infinities and the Periodic Table (ISBN 978-0-9934667-3-1) and has published two articles :Proposed Link between the Periodic Table and the Standard Model: J Material Sci Eng 6:356.doi:10.4172/2169-0022.1000356 Implications of the Link between the Periodic Table and the Standard Model : J Material Sci Eng 2018, 7:2doi:10.4172/2169-0022.1000438.

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