

Paper C09: Periodic Table of Connexional States: Elements Classified by C0-C9 Accessible States

Motti Table 3.0 as Extension of Mendeleev's Table into the Connexional Domain

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Abstract

The Motti Periodic Table 3.0 classifies all 118 elements not only by atomic number but by their accessible connexional states (C0-C9), their Quantum Predisposition Index (IPQ), Quantum Localization Index (ILQ), Total Functional Index (IFT), and Modal Attractor Class (MAC). This classification predicts chemical and physical properties impossible to derive from Mendeleev's table.

Central Prediction

Each element has a unique (IPQ, ILQ, IFT, MAC) signature invariant under all connexional transformations

Classification axis	Mendeleev table	Motti Table 3.0	New prediction
Primary criterion	Atomic number Z	IFT (functional index)	Reactivity beyond Z
Bonding criterion	Electronegativity	MAC (attractor class)	Connexional bond type
Stability criterion	Electron config.	IPQ (coherence index)	Quantum coherence time
Reactivity criterion	Ionization energy	ILQ (localization index)	Collapse efficiency

Falsification Criterion

The Motti Table 3.0 predicts that elements with identical IFT but different Z show similar connexional reactivity despite different classical reactivity. Experimental verification of connexional reactions between IFT-matched elements from different classical groups constitutes direct validation.