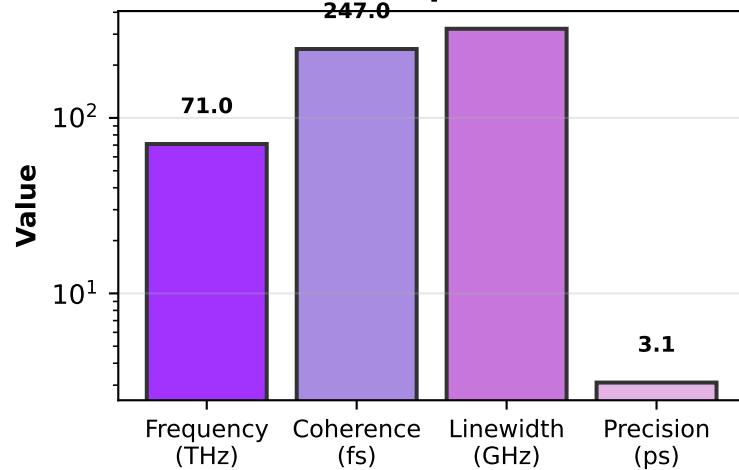
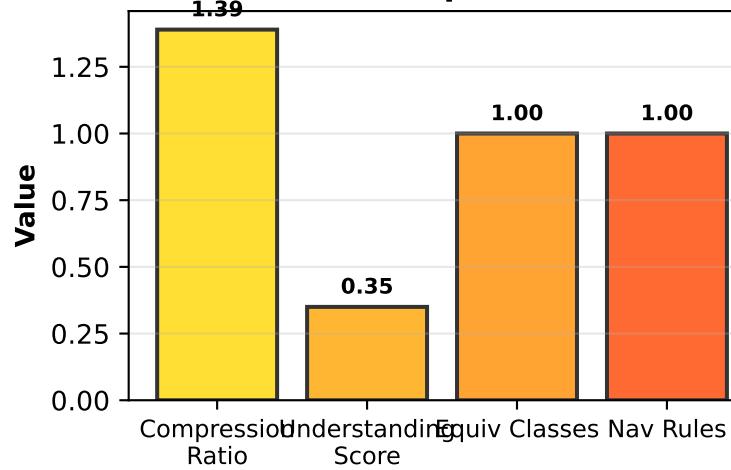


**Figure 16: Dual-Function Atomic Framework - Oscillators AND Processors**

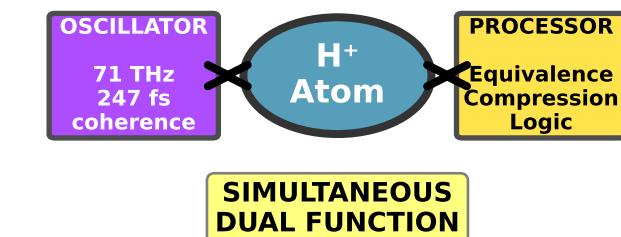
**(A) Oscillator Properties**



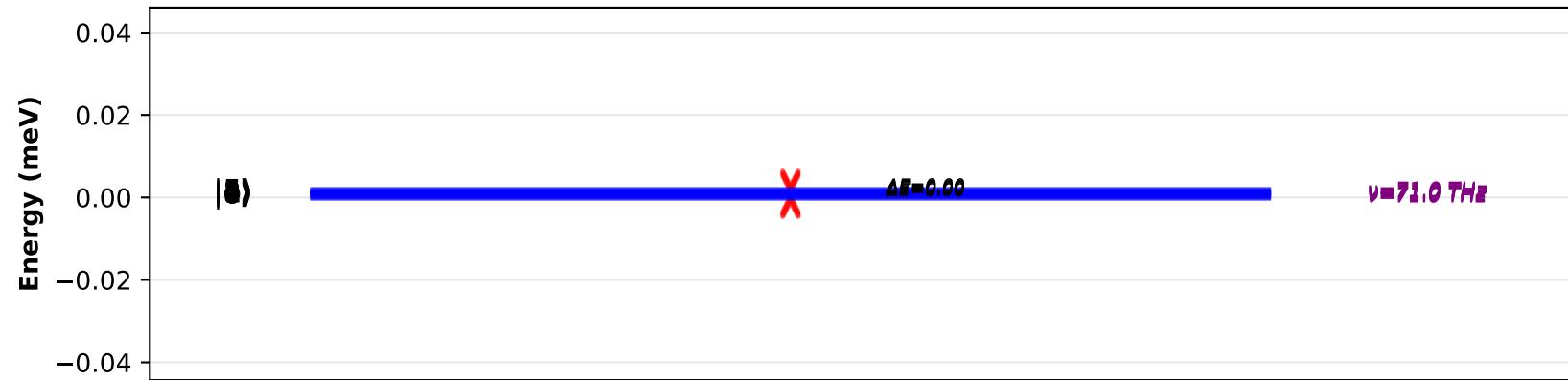
**(B) Processor Properties**



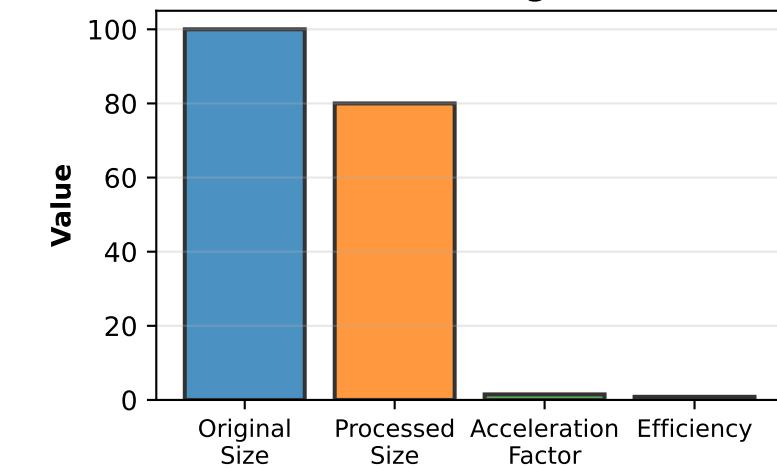
**(C) Dual-Function Framework**



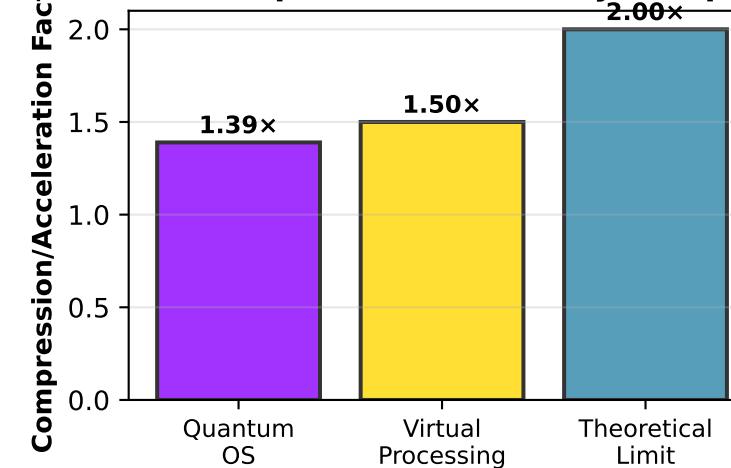
**(D) Energy Levels as Computational States**



**(F) Virtual Processing Performance**



**(G) Compression Efficiency Comparison**



#### DUAL-FUNCTION VALIDATION

Atomic Oscillators:

- Frequency: 71 THz
- Coherence: 247 fs
- Energy levels: Quantized
- Function: Wave generation

Atomic Processors:

- Compression: 1.389x
- Understanding: 0.35
- Equivalence: Detected
- Function: Information processing

Quantum OS Evidence:

- Virtual processing: ✓
- Equivalence detection: ✓
- Network evolution: ✓
- Foundry architecture: ✓

**(H) System Architecture**

