

What Quantum Mechanics Claims

Physics

The core departures from classical physics, stated plainly.

The claims that separate quantum from classical physics.

The claims

Quantisation — energy comes in discrete units

Superposition — states combine until measured

Probability — outcomes are not determined

Uncertainty — some pairs resist joint precision

Indistinguishability — identical means identical

Consequences

Atoms have discrete line spectra

Interference for single particles

Tunnelling through barriers

Zero-point energy that never vanishes

Exclusion gives matter its volume

These are not statements about ignorance. Experiment rules out local hidden variables that would restore classical determinism.