

Answer on Question #37537 – Physics – Quantum Mechanics

Question:

WHAT DO YOU UNDERSTAND BY PHYSICAL SIGNIFICANCE OF THE ENERGY TIME UNCERTAINTY RELATION

Answer:

Uncertainty principle of energy and time $\Delta E \Delta t \geq \hbar$ means that the quantum system being in a state with uncertainty energy ΔE will be in this state for the time Δt , or other meaning is that for measurement of energy with accuracy ΔE it takes the time Δt for the measurement.