

Episode One Hundred Nineteen - Letter to Herodotus 08 - More On Perception Through The Atoms

Post by “Martin” of June 22, 2022 at 7:03 AM

Godfrey's comment #16 appears to be somewhat off or misleading.

That the act of measuring affects the thing being measured is related to the uncertainty principle of quantum theory.

We do not know the size of photons and electrons. The smallest feature we can measure is given by the wavelength of the photons, electrons or whatever other probes we use multiplied by a factor. By increasing their energy, the wavelength becomes smaller, and correspondingly, smaller features can be resolved. That is why physicists who work with accelerators keep pushing for higher energies.

Within Epicurean physics, atoms are hard bodies. If they were large and not emitting anything, they would at least be visible as shadows.

Epicurus' concept of bodies emitting films appears to be an inconsistency within his physics and does not match modern physics. I see no convincing analogy there.