

Source: [KBPhysicsMasterIndex](#)

1 | Quantum Mechanics

What is quantum mechanics? Quantum => in small/discrete steps

The Quantum of US Currency => \$0.01

1.1 | Puzzle of the Blackbody Radiation

("black" => opaque): from solid materials, liquids

The radiation from hot, solid materials looks samey (bright yellow) unlike every gas, however, had a spectral emission (think - neon lights.)

But!

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The light spectrum did depend on temperature, so what happened? Why is everything hot?

Max Plank => trying to model incoming light source from rays as basically all absorbed and not bounced back.

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Max's Plank's Model 1 matched well with long wavelengths (red hot) => that