1905: Einstein’s Miraculous Year

1. Establishes the reality of atoms with a paper on Brownian motion.

2. Birth of quantum mechanics with paper on the "photoelectric effect".

3. Publishes the theory of relativity:
   - Destroys notion of absolute space and time.
   - Introduces idea of "space-time".
   - Demonstrates that no information can propagate faster than the speed of light, c.

4. (1906) Derives famous equation:

   \[ E = mc^2 \]

   → Establishes equivalence of mass and energy.
The Electromagnetic Spectrum

Penetrating Power in Earth's Atmosphere