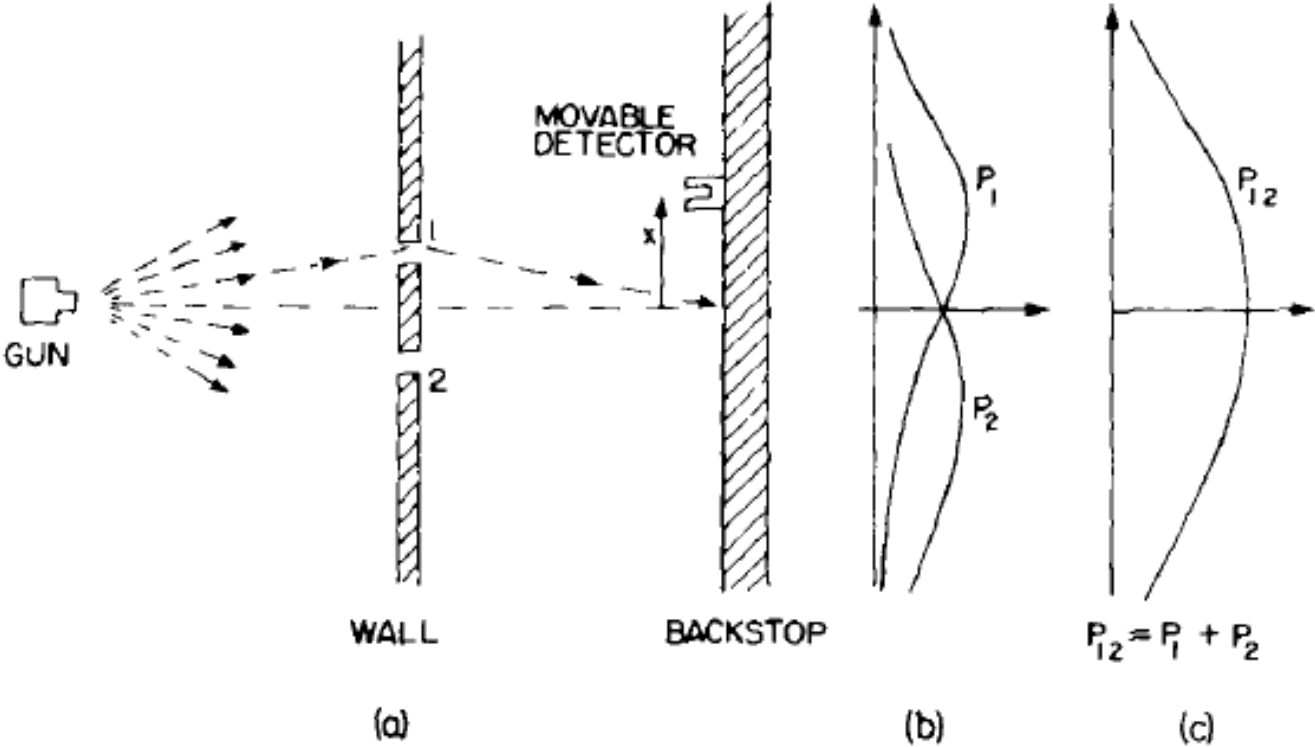


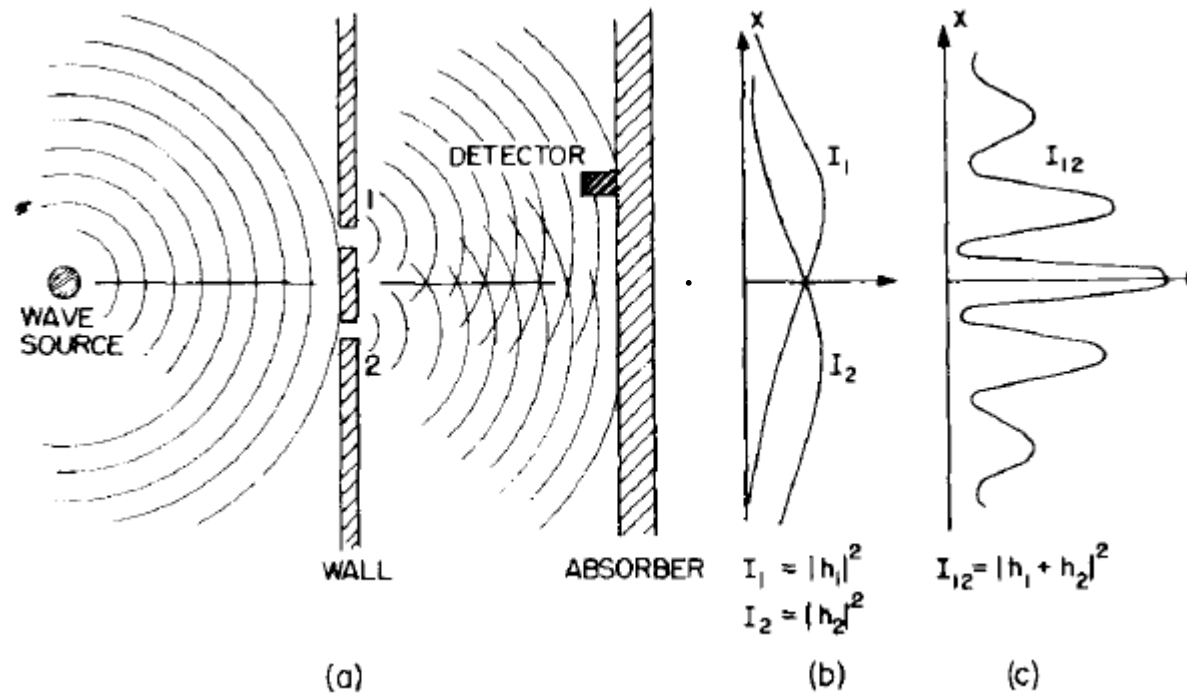
I think I can safely say that nobody understands quantum mechanics. So do not take the lecture too seriously, feeling that you really have to understand in terms of some model what I am going to describe, but just relax and enjoy it. I am going to tell you what nature behaves like. If you will simply admit that maybe she does behave like this, you will find her a delightful, entrancing thing. Do not keep saying to yourself, if you can possibly avoid it, "But how can it be like that?" because you will get 'down the drain', into a blind alley from which nobody has escaped. Nobody knows how it can be like that.

Richard Feynman, The Character of Physical Law

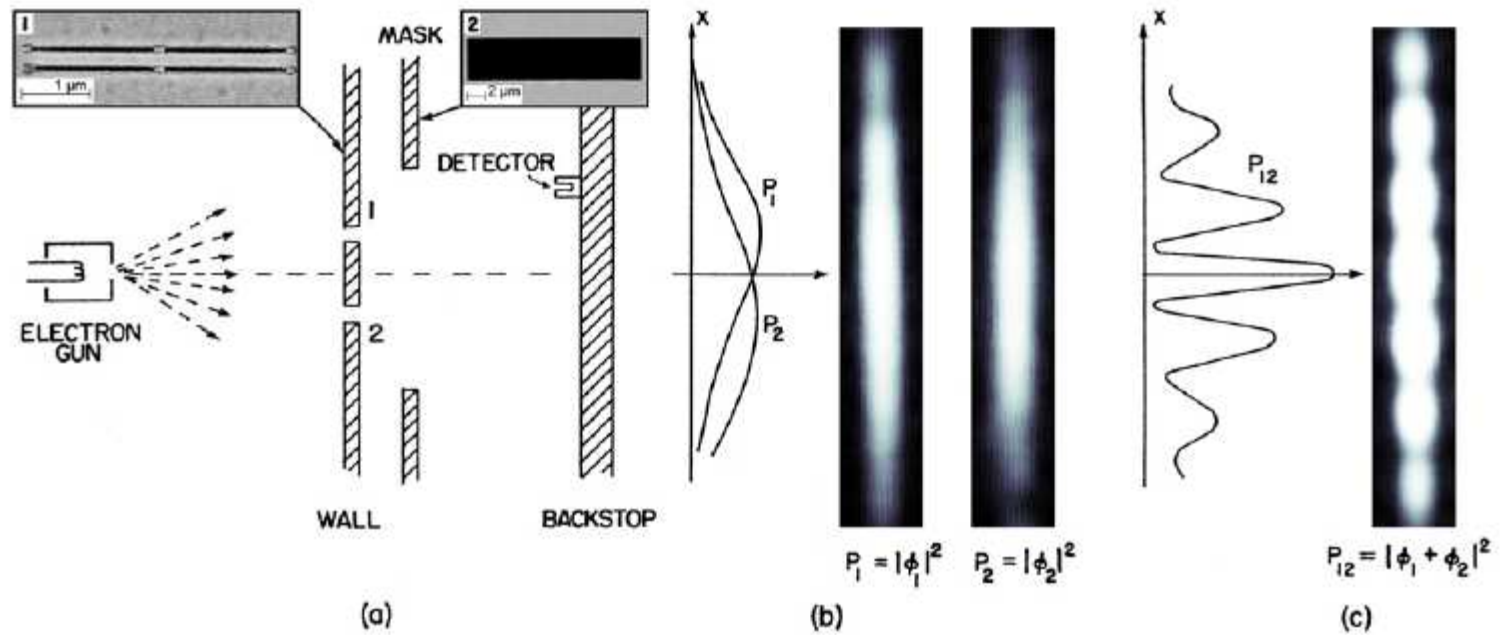
Details in Feynman Lectures on Physics, vol. 3, sec.1-2



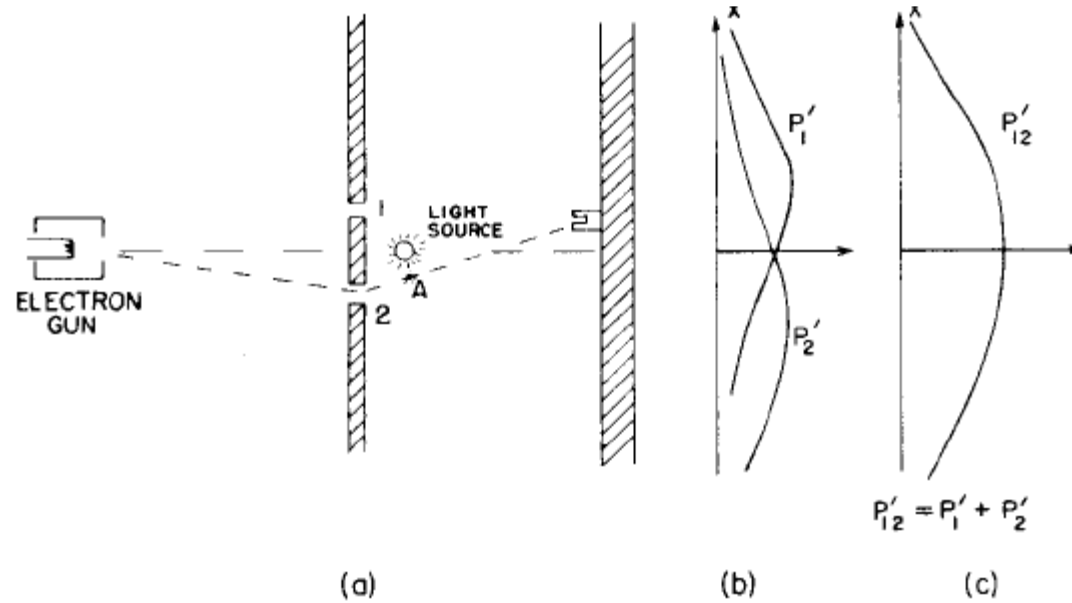
Details in Feynman Lectures on Physics, vol. 3, sec.1-3

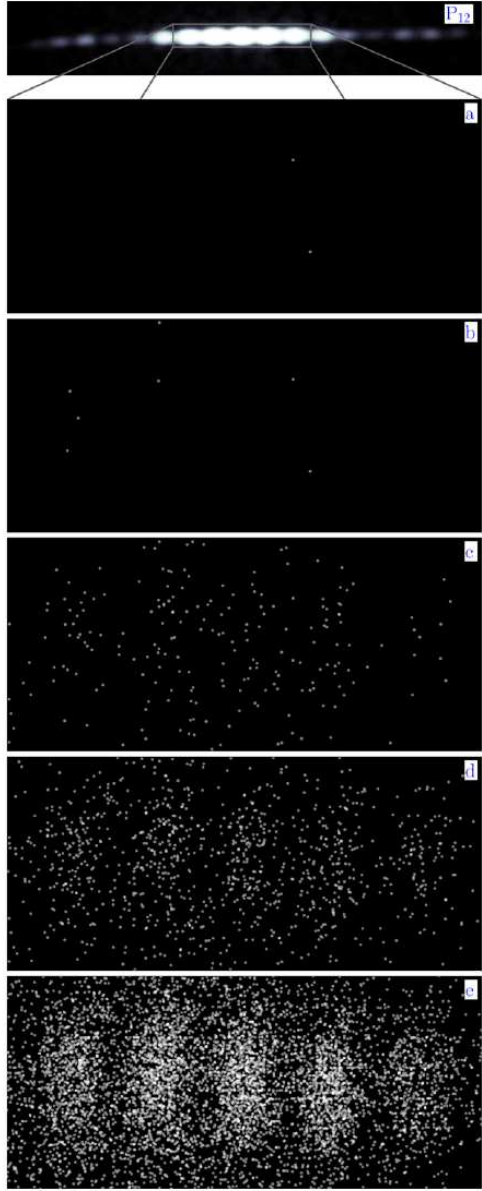


Details in Feynman Lectures on Physics, vol. 3, sec.1-4



Details in Feynman Lectures on Physics, vol. 3, sec.1-6





Things you are expected to know

From MAL100

Functions of several variables, limit and continuity, partial derivatives and differentiability

From PHL100

Wave-particle duality, de-Broglie waves; Quantum mechanical operators; Schroedinger equation, Wave function, Statistical interpretation, Superposition Principle; Stationary states, Bound states, Free-particle solution, 1-D infinite potential well, Expectation values and uncertainty relations