

Exercises — Theme 1

Exercise 1 : Stern–Gerlach and the idea of quantization

Keywords: Stern–Gerlach, spin, measurement postulate, experiment

Question. A beam of atoms crosses a Stern–Gerlach device along z ; the “spin-up” component is kept. That sub-beam enters a second device, also along z . What is seen on the screen?

Question. Same preparation, but the second device is along x . What happens?