

Ragnar Fjelland

Quantum mechanics and the "observer"

Abstract

The observer was introduced into quantum mechanics to solve some apparent paradoxes. However, it was controversial from the very beginning, because it was regarded as a kind of subjectivism, and because it destroyed the "deterministic dream". In this presentation I shall argue that determinism must be given up, but not causality. The argument will be that physics is an experimental science, and to experiment we need causality.