

Abstract:

In this thesis, under the title: "Quantum mechanical picture of the universe: from orthodox quantum mechanical to bohmian mechanics", we outline and discuss two different interpretations. So, in first chapter, we review the mathematical formalism of standard quantum mechanics, and then in following chapter, we explain the Copenhagen interpretation. In third chapter, the hidden variables theory will be discussed, and in fourth chapter, by using these ideas, we discuss in details the bohmian quantum mechanics. Finally in last chapter, we give in brief some criticism on bohmian mechanics and give suggestions for further research.