

Abstract

One of the most important businesses for human is transferring of information with safe procedure. In ancient time, many procedures have been established for reaching the safety. And for creating such procedure using human and natural science rules. Now, here we want to explain about one of the safety procedures to protect information, which based on rules of quantum mechanic. At the first we need to study classical cryptography and then with regard rules of quantum mechanic and rules of classical cryptography, we will introduce QKD schemes. Then with using this plan, the BB84 protocol which is one of the safest of quantum cryptography will be study and at the end we will show its safety.