



# Second African Conference on Fundamental and Applied Physics ACP2021

Contribution ID: 45

Type: **Invited Talk**

## An introduction to quantum computing and quantum information

*Tuesday, 8 March 2022 12:30 (25 minutes)*

Since its discovery, Quantum Mechanics has been used to describe the behaviour of matter in the bulk, e.g. aggregates of atoms in the form of solids, liquids and gases. Technological advances in the past decades have now provided the possibility of manipulating single atoms, ions and photons. This will bring us to a new era which will most likely be dominated by quantum technologies. In this talk we will briefly review these developments and present a few open problems which can be simply formulated.

### **Abstract Category**

**Presenter:** KARIMIPOUR, Vahid (Sharif University of Technology, Iran)

**Session Classification:** Physics Plenary (2)