

# **Quantum Computing hands-on Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome and Introduction

*Monday 13 January 2025 09:00 (30 minutes)*

Contribution ID: 2

Type: **not specified**

# Fundamentals of Quantum computing

*Monday 13 January 2025 09:30 (1 hour)*

Contribution ID: 3

Type: **not specified**

## Introduction to Qiskit

*Monday 13 January 2025 10:30 (1 hour)*

Contribution ID: 4

Type: **not specified**

## CHSH Inequality

*Monday 13 January 2025 11:30 (1 hour)*

Contribution ID: 5

Type: **not specified**

## **Workflow in running Quantum Circuits on Qiskit**

*Monday 13 January 2025 13:30 (1 hour)*

Contribution ID: 6

Type: **not specified**

## Information Paradox

*Monday 13 January 2025 14:30 (1 hour)*

Contribution ID: 7

Type: **not specified**

## Revision of Day 1

*Tuesday 14 January 2025 09:00 (30 minutes)*

Contribution ID: 8

Type: **not specified**

## Hands on Activity

*Tuesday 14 January 2025 09:30 (1 hour)*

Contribution ID: 9

Type: **not specified**

## VQE (Hands-on Acitivity)

*Tuesday 14 January 2025 10:30 (1 hour)*

Contribution ID: **10**

Type: **not specified**

## **SHOR's Algorithm**

*Tuesday 14 January 2025 11:30 (1 hour)*

Contribution ID: 11

Type: **not specified**

## **Further applications of Quantum computng**

*Tuesday 14 January 2025 13:30 (1 hour)*

Contribution ID: 12

Type: **not specified**

# **From Qubits to Quantum supremacy: The Journey of Quantum computing**

*Tuesday 14 January 2025 14:30 (1 hour)*