



Quantum Information Group
Sharif University of Technology

Presenter: Mahkame Salimi Moghadam

Title: Quantum Information Processing with NMR Spectroscopy

Abstract:

Quantum Information Processing (QIP) is one of the active areas of research in both theoretical and experimental physics. Any experimental technique that works for implement of QIP on large scale must satisfy these conditions: 1- To have well-characterized Qubits 2- to be able to generate a complete set of universal gates 3- To apply to a scalable physical system. Nuclear Magnetic Resonance (NMR) satisfies these demands, but it is not scalable. So, it can be a great technique to study the fundamental of QIP, not for building a large-scale quantum computer. In this talk, I describe the fundamental of NMR QIP and I show the result of the experiment in the rest.

Place: <https://vc.sharif.edu/ch/sraeisi>

Date: Ordibehesht 28th .1400