Speaker: **Jiheon Seong Korea Advanced Institute of Science and Technology (KAIST)**

Title: **Purified estimation at one go on a quantum computer**

Date: **Wednesday, July 20th, 4 pm**

Place: **Seminar room 915**

Purified estimation at one go on a quantum computer

To economise the quantum resource, we should address the number of required measurement settings for a given observable, such as an EW or a Hamiltonian for example. On the other hand, qubit allocation can pose an issue, in particular, in the context of entanglement certification. In this talk, I'll address these two issues and describe the framework of purified estimation at one go as a candidate solution. I'll also share some results on IBM Q and IonQ, including certification of entanglement generation on a quantum computer, where the aforementioned framework was applied.