



The Abdus Salam  
International Centre  
for Theoretical Physics



# ICTP-IBM School on Quantum Computing and Simulation

## DESCRIPTION:

The aim of this school is to provide a comprehensive introduction to quantum computing and simulation, targeted at PhD students and early postdoctoral fellows working in the field. The event will feature a combination of theory lectures and experimental seminars, covering basic as well as advanced topics.

## TOPICS:

- Quantum computing theory, including algorithms and applications
- Quantum simulation
- Quantum hardware

## SPEAKERS:

R. Blatt  
University of Innsbruck, Austria  
A. Childs  
University of Maryland, USA  
M. Collura  
SISSA, Italy  
E. Farhi  
MIT, USA  
G. Ferrini  
Chalmers University, Sweden  
J. Gambetta  
IBM, USA

A. Hamma  
University of Naples, Italy  
T. Lahaye  
Institut d'Optique Palaiseau,  
France  
U. Schneider  
University of Cambridge, UK  
N. Yoshioka  
University of Tokyo, Japan



**20 - 30 April 2026**



**Trieste, Italy**



## Applications and Deadlines:

For applicants requesting financial and visa support:  
**25 January 2026**

For all other applicants:  
**10 February 2026**

## DIRECTORS:

Rosario Fazio, ICTP  
Antonello Scardicchio, ICTP  
Sarah Sheldon, IBM

## LOCAL ORGANISER:

Marcello Dalmonte, ICTP

## FURTHER INFORMATION:

E-mail: [smr4213@ictp.it](mailto:smr4213@ictp.it)

Web: <http://indico.ictp.it/event/11139/>

Female scientists are encouraged to apply.

## GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

