

Co-organisers:



Supporting Organisation:

教育局
Education Bureau

Holistic Talk
Series



E2TEC008T

(Not-token required)



The Hong Kong Young Academy of Sciences (YASHK) talk series

Talk Series on Emerging Technologies – Science,
Opportunities and Challenges 2022:

The Quantum Revolution: From Foundations to New Information Technologies

Prof. Giulio Chiribella

Professor, The Department of Computer Science
The University of Hong Kong

Application Deadline

18 November 2022

12:00 noon

Intended Learning Outcomes

Upon completion of the programme, participants should be able to:

1. be aware of the impact of new quantum technologies;
2. understand that fundamental questions on the nature of reality often lead to disruptive new technologies;
3. become familiar with the frontier of scientific research.



◆ Introduction

We live in the age of information. But do you really know what information is, at its most fundamental level? Do you know what role information plays in the fundamental laws of nature? In this talk, you will hear about a new type of information, called quantum information, which arises in the world of elementary particles, and promises to have a huge impact on society and everyday life. We will see that fundamental questions about quantum information and the nature of reality have led to the invention of powerful new technologies, such as secret communication systems that cannot be decrypted by any hacker, and ultrapowerful computers that will overcome today's best supercomputers. Finally, we will explore how quantum information is changing our view of the universe, transforming our notions of space, time, cause and effect. The talk will be accessible to all audiences, no need of any science background.

◆ Schedule

Session	Date	Time	Venue
1	26 November	10:00 a.m. – 12:00 noon	Zoom Meeting

◆ Target Participants

- S1 – S6 HKAGE student members in 2022/23 school year only.
- Class size: 100
- * First-come-first-served.

◆ Medium of Instruction

English

◆ Certificate

E-Certificate will be awarded to participants who have attended the talk.

This talk is one of the items in the four domains of the Holistic Talk Series. The objective is to facilitate the all-round development of student' gifted potential.



The Hong Kong Young Academy of Sciences (YASHK) talk series

Talks are about emerging technology to inspire students' motivation in pursuing knowledge in specialized areas.



Celebrities Talk Series

Celebrities share their life-changing moments to enhance students' aspirations for life.



Academic Introductory Talk Series

Introduce trendy topics to widen the students' horizons.



Future Insight Talk Series

Professionals explain the latest trend in their industry to give students an insight to plan their future.

