



香港資優教育學苑

The Hong Kong Academy for Gifted Education

香港特別行政區政府教育局資助

Subvented by the Education Bureau, the Government of the HKSAR



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[**Gifted Programme**]

Quantum Physics Course (Level III)

E3CSC002C

(Token- required)

Fun Quantum Physics

Prof. Wang Xin Sunny

Physical Society of Hong Kong



Application Deadline
4 Aug 2025 12:00 noon

Intended Learning Outcomes

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

1. develop an understanding of key concepts of quantum physics, such as the structure of an atom, superposition, and measurement;
2. enhance problem-solving skills through interactive experiments and thought exercises inspired by quantum phenomena;
3. explore quantum physics through interactive Virtual Reality experiences;
4. gain practical insights into quantum research through lab tours and be inspired by awe and curiosity about the field's potential.

Result Release
15 Aug 2025

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

◆ Gifted Programme Introduction

Quantum physics is a captivating field that drives modern technology. This course will introduce essential concepts like atomic structure, superposition, and measurement, showcasing their real-world applications. Participants will engage in hands-on experiments and thought exercises to sharpen problem-solving skills. Interactive Virtual Reality experiences will vividly illustrate quantum principles, while lab tours offer practical insights into cutting-edge research.

Outstanding participants may be invited to share their learning experiences in “Physics Education” session of international academic conferences organized or co-organized by the Physical Society of Hong Kong.

◆ Schedule

Session	Date	Time	Venue (TBC)
1	27 Sep	2:00 p.m. – 5:00 p.m.	City University of Hong Kong
2	4 Oct		
3	11 Oct		
4	18 Oct		

◆ Suitable for

- S1 – S6 HKAGE student members in 2025/26 school year.
- Class size: 30

◆ Pre-requisite

Some basic understanding of probability and classical physics including energy, motion, atoms and light

◆ Medium of Instruction

English with English handouts

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 3 sessions; AND
- completed all the assignments with satisfactory performance