

Joint CQSE & NCTS Seminar

2023
Apr. 28, Friday

TIME Apr. 28, 2023, 14:30~15:30pm
TITLE Using Master-to-Slave Injection Locked Laser Diodes for
Quantum Key Distribution
SPEAKER Prof. Gong-Ru Lin
(Department of Electrical Engineering, National Taiwan
University)
PLACE Rm104, Chin-Pao Yang Lecture Hall, CCMS & New
Physics Building, NTU
ONLINE <https://nationaltaiwanuniversity-zbn.my.webex.com/>

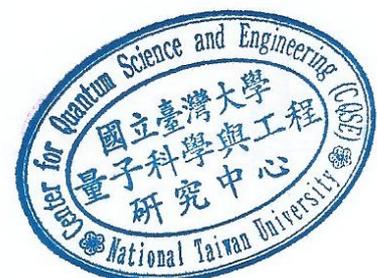


Abstract:

In this talk, the fundamentals and technologies of quantum key distribution (QKD) based on semiconductor laser diodes will be reviewed and demonstrated for implementing the first prototype of Single-Photon QKD transmitter and receiver in NTU. Two different schemes of the QKD generators will be introduced through the exhibition of their key parameters and performances.

Biography Brief:

Gong-Ru Lin,
Y. Z. Hsu Science Chair Professor
Lifetime Distinguished Professor
Fellows of IEEE, OSA, SPIE, IET, IOP
Distinguished Research Fellow of MOST
13th President of Taiwan Photonics Society
Associate Dean, College of Electrical Engineering and Computer Science
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