

Kai Lin Ong
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Employment

Assistant Professor

School of Mathematical & Computer Sciences
Heriot-Watt University
20 Dec 2019 → present

Research interests

Algebra and its application in coding theory, quantum error-correction, quantum computing and machine learning.

Research outputs

Burst error-correcting quantum stabilizer codes designed from idempotents

Ong, K. L., 22 Mar 2023, In: Quantum Information Processing. 22, 3, 158.

On equivalence of cyclic and dihedral zero-divisor codes having nilpotents of nilpotency degree two as generators

Ong, K. L. & Ang, M. H., May 2022, In: Designs, Codes and Cryptography. 90, 5, p. 1127-1138 12 p.

On equivalency of zero-divisor codes via classifying their idempotent generator

Ong, K. L. & Ang, M. H., Oct 2020, In: Designs, Codes, and Cryptography. 88, 10, p. 2051-2065 15 p.

Full Identification of Idempotens in Binary Abelian Group Rings

Ong, K. L. & Ang, M. H., 24 Dec 2017, In: Journal of the Indonesian Mathematical Society. 23, 2, p. 67-75 9 p.

Study of idempotents in cyclic group rings over F_2

Ong, K. L. & Ang, M. H., 2 Jun 2016, *Innovations Through Mathematical and Statistical Research: Proceedings of the 2nd International Conference on Mathematical Sciences and Statistics (ICMSS2016)*. AIP Publishing, 020011. (AIP Conference Proceedings; vol. 1739).

Prizes

HWU Teaching Excellence Award 2021- Global Teaching Team

Ong, Kai Lin (Recipient), 14 Jun 2021

Activities

Closing the feedback loop with Gradescope

Kai Lin Ong (Speaker)

8 Jun 2022

Activity: Talk or presentation › Oral presentation

Globally Connected Learning: A Student-Led Approach in Building Global Community of Learners

Kai Lin Ong (Speaker)

7 Jun 2022

Activity: Talk or presentation › Oral presentation

Linear Algebra: Building a sustainable global community of learners

Kai Lin Ong (Speaker)

3 Nov 2021

Activity: Talk or presentation › Oral presentation

Where is the 4x speed button?

Kai Lin Ong (Speaker)

2 Sept 2021

Activity: Talk or presentation › Oral presentation

Where's the 4x speed button?

Kai Lin Ong (Speaker)

9 Jun 2021

Activity: Talk or presentation › Oral presentation

Global Teaching Team: Now with students

Kai Lin Ong (Speaker)

8 Jun 2021

Activity: Talk or presentation › Oral presentation

Impacts