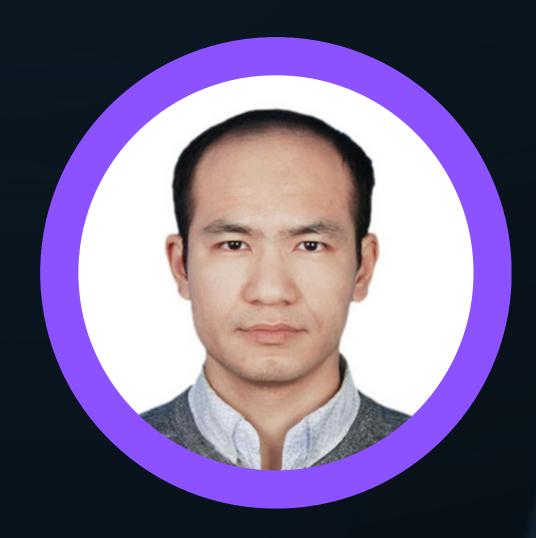
## MATH COLLOQUIUM SERIES

School of Mathematical Sciences Universiti Sains Malaysia



## CONSTRUCTIONS OF SELF-COMPLEMENTARY VERTEX-TRANSITIVE GRAPHS



DR. GUANG RAO YALE-NUS COLLEGE, NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE

- 12 December 2023 (Tuesday)
- () 10:00-11:00 AM (Malaysia time)
- Attps://bit.ly/MCS12-12-23



**Abstract**. A graph is vertex transitive if its automorphism group is transitive on its vertex set. A graph is self-complementary if it is isomorphic to its complement. Self-complementary vertex-transitive graphs have important applications such as Ramsey numbers and Shannon capacity but our knowledge of this family of graphs is very limited. In this talk, I will present various known construction methods for these graphs and their challenges.

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