## Lethbridge Number Theory and Combinatorics Seminar

Wednesday — January 24, 2024 Room: M1060

Time: 1:45 to 2:45 p.m.

Online Registration Link: https://uleth.zoom.us/meeting/ register/tJEucirrzIsG9cXKQOBe5JuREYTIiesCb4U

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## Projective Planes and Hadamard Matrices

It is conjectured that there is no projective plane of order 12. Balanced splittable Hadamard matrices were introduced in 2018. In 2023, it was shown that a projective plane of order 12 is equivalent to a balanced multi-splittable Hadamard matrix of order 144. There will be an attempt to show the equivalence in a way that may require little background.

## **EVERYONE IS WELCOME!**

Organizers: Félix Baril Boudreau and Ertan Elma Visit the seminar web page at http://www.cs.uleth.ca/~nathanng/ntcoseminar/

