

# Undergraduate Colloquium in Mathematics

Thursday, October 18<sup>th</sup> 1:00 PM-1:50 PM

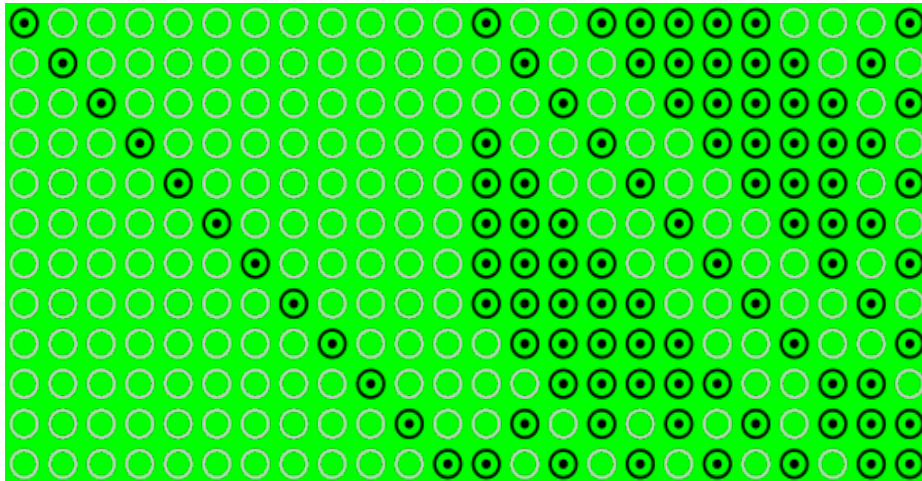
STV 131

## Codes Everywhere

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A code of length  $n$  over an alphabet  $A$  is a collection of vectors whose  $n$  entries (coordinates) are from  $A$ . In this talk, we start with this simple definition to explore some interesting codes and their applications (not necessarily practical)



Generator matrix of the extended Binary Golay Code. The matrix comprises the identity matrix and the complement of the adjacency matrix of the icosahedron.

