

---

**ANDREA BURGESS**, Ryerson University

*Generalized packing designs and hypergraph packings*

In 2009, Peter Cameron introduced a generalization of  $t$ -designs; these generalized designs may be viewed as particular decompositions of an associated hypergraph into complete  $t$ -uniform hypergraphs. We consider a similar generalization of packing designs, encompassing structures such as ordinary packings and packing arrays. We examine the relationship between generalized packings and hypergraph packing problems, provide bounds on generalized packing numbers, and discuss connections between generalized packings and various combinatorial designs.

(Joint work with Robert Bailey)