

---

**RICHARD ANSTEE**, Mathematics, UBC

*Forbidden Configurations: Progress towards a Conjecture*

A matrix is simple if it is a  $(0,1)$ -matrix with no repeated columns. Given a  $(0,1)$ -matrix  $F$ , we say matrix  $A$  has no configuration  $F$  if no submatrix of  $A$  is a row and column permutation of  $F$ . Let  $|A|$  denote the number of columns in  $A$ . Define  $\text{forb}(m, F) = \max\{|A| : A \text{ is } m\text{-rowed simple matrix with no configuration } F\}$ . A conjectured asymptotic bound for  $\text{forb}(m, F)$  is verified for new  $F$ . Joint with Sali, Raggi.