

**ZMATH 2010b.00570**

**Gebhardt, Olav; Overholt, Marius**

**A combinatorial curiosity. (Et kombinatorisk kuriosum.)**

Normat. 57, No. 4, 170-172 (2009).

Summary: Given  $n$  strands of black and white pearls, each of length  $k$ . Assume that each pair of strands agree in at least  $m$  more positions than they disagree, and that at each position the excess number of pearls of one color over the other across the strands is at most  $d$ . The authors find a necessary condition on  $n, k, m$  and  $d$ , and prove it both combinatorially and by linear algebra.

*Classification:* K25