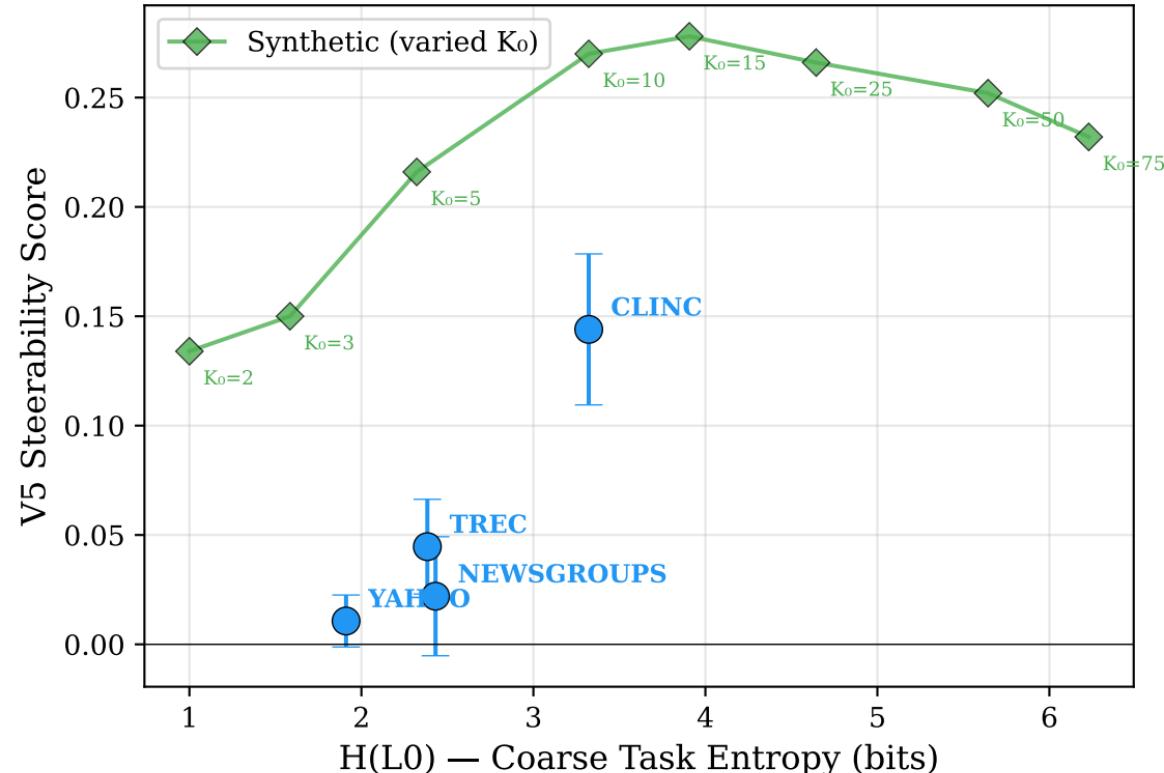


# Disentangling the Scaling Law: H(L0) is the True Driver

**Mechanism:  $S \sim H(L0)$**   
**(prefix task demand drives steerability)**



**Observational Confound:  $S$  vs  $H(L1|L0)$**   
**(positive for real, NEGATIVE for synthetic)**

