

# RIGID COLLAPSE

MONROE ESKEW

ABSTRACT. We show that for Mahlo  $\kappa$  and regular  $\mu < \kappa$ , there is a  $\kappa$ -c.c.,  $\mu$ -directed closed partial order  $\mathbb{P}$  that forces  $\kappa = \mu^+$ , with the property that whenever  $G \subseteq \mathbb{P}$  is generic over  $V$ ,  $G$  is the unique  $\mathbb{P}$ -generic filter over  $V$  in  $V[G]$ . We apply this to construct models of GCH with a saturated ideal  $I$  on any prescribed successor cardinal  $\kappa$ , such that the quotient algebra  $\mathcal{P}(\kappa)/I$  has no nontrivial automorphisms.