Jim Hoste\* (jhoste@pitzer.edu), 1011 Fuller Drive, Claremont, CA 91711, and Patrick D. Shanahan and Cornelia A. Van Cott. Crosscap number of 2-bridge knots and the partial order on prime knots.

Suppose K and J are distinct knots in the 3-sphere and that K > J, meaning that there is an epimorphism of the knot group of K onto the knot group of J. Then,  $\gamma(K) \ge 3\gamma(J) - 4$ , where  $\gamma(K)$  is the crosscap number, or non-orientable genus of the knot K. Furthermore, the inequality is sharp. (Received September 15, 2020)