1171-05-6 **Bruce E Sagan*** (sagan@math.msu.edu), Department of Mathematics, Michigan State University, East Lansing, MI 48824, **Robin Sulzgruber**, Department of Mathematics and Statistics, York University, York, ON M3J 1P3, Canada, and **Joshua Swanson**, Department of Mathematics, University of California, San Diego, La Jolla, CA 92093. *Stirling numbers for complex reflection groups.* Preliminary report.

Let G be a finite, irreducible complex reflection group. We propose defining Stirling numbers of the first and second kind for G as the Whitney numbers of the first and second kind for the intersection lattice $L(G)$. The ordinary Stirling numbers are recovered in type A. We show that often these Stirling numbers can be expressed in terms of elementary and homogeneous symmetric functions. When G is a Coxeter group, we also investigate ordered Stirling analogues obtained by relating $L(G)$ and G's Coxeter complex. Various statistics on $L(G)$ yield q-analogues of unordered and ordered Stirling numbers of the second kind, one of which has appeared in a recent super covariant conjecture of Zabrocki. (Received July 01, 2021)