

1145-57-2163      **Constance Leidy\*** ([cleidy@wesleyan.edu](mailto:cleidy@wesleyan.edu)), Department of Mathematics & CS, 265 Church Street, Middletown, CT 06457. *Searching for structure in the knot concordance group.*

Two knots are concordant if they cobound a smoothly embedded annulus in  $S^3 \times I$ . Slice knots are those that are concordant to the unknot, or equivalently those that cobound a smoothly embedded disk in the 4-ball. The collection of concordance classes forms an abelian group, with identity element given by the collection of slice knots. In this talk, we will give an overview of knot concordance and will focus on attempts to find structure in the knot concordance group. (Received September 24, 2018)