1163-55-1485 Casey Necheles\*, clnechel@syr.edu, and Stephan Wehrli. An odd annular Bar-Natan category and equivalent Temperley Lieb supercategory.

We introduce an odd version of the annular Bar-Natan category and show it is equivalent to a dotted version of the odd Temperley Lieb supercategory  $\mathcal{STL}_{\bullet,\delta=0}$  defined by Brundan and Ellis. After setting dots equal to zero,  $\mathcal{STL}_{\bullet,\delta=0}$  embeds into the representation category of the Lie superalgebra  $\mathfrak{gl}(1|1)$ . This gives us an interpretation of the  $\mathfrak{gl}(1|1)$  action on odd Khovanov homology shown as shown by Grigsby and Wehrli in 2018. (Received September 15, 2020)