

1135-F1-2648 **Susan Goldstine*** (sgoldstine@smcm.edu), Dept of Mathematics and Computer Science, St. Mary's College of Maryland, 47645 College Drive, St. Mary's City, MD 20619. *Knitting Symmetries: Yarn, Stitch, and Fabric.*

Symmetry has long been a key element of the decorative arts. As more artists and mathematicians turn their attention to the interface between mathematics and the arts, we have paid closer and closer attention to which symmetry types are possible in different art forms. Here, we take a deep dive into the frieze and wallpaper symmetries in different styles of knitting and find that some symmetries are more deeply embedded in the fiber of knitting than others. (Received September 26, 2017)