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THE COVER

Abstract mathematical surfaces can be hard to visualize— but they are much easier to grasp mentally when they can be picked up and moved around. Mathematician sarah-marie belcastro began rendering surfaces in knitting when she was in graduate school. The cover shows a Klein bottle—a surface whose inside is contiguous with its outside—knitted by belcastro in 2013. It has a hole, visible at upper left, that can slide along the object to reveal other aspects of the structure. A Photograph of this Klein bottle in another configuration is shown at the beginning of “Adventures in Mathematical Knitting.” on page 125. At right is a knitted torus—a surface whose shape is that of a hollow doughnut. (Cover photograph by Austin Green.)