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# Building a better bracelet: wallpaper patterns in bead crochet

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Sophie Sommer's investigation of wallpaper patterns in bead crochet as part of her science fair project 'Mathematical Explorations in Bead Crochet' was the initial inspiration for our work. She was also kind enough to allow us to interrupt her crocheting of the bracelet in [Figure 1](#) to photograph the process for this article. Robert Fathauer's suggestions for how to construct a regular tiling on a vertical bead crochet chart got us past an early stumbling block. Kira Isaacs and Kate Magauran were patient and accurate bead-stringers extraordinaire. Judith Bertoglio-Giffin's pattern books provided a helpful spring board for thinking about bead crochet pattern design, and Amy Nastasi started everything by generously passing on her bead crochet craft expertise.

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