

652 | 5 | 3  
Views CrossRef citations to date Altmetric

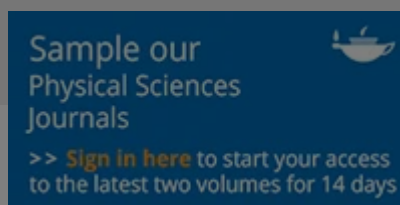
Original Articles

# Building a better bracelet: wallpaper patterns in bead crochet

Susan Goldstine  & Ellie Baker

Pages 5-17 | Received 25 Aug 2011, Accepted 07 Dec 2011, Published online: 27 Mar 2012

 Cite this article  <https://doi.org/10.1080/17513472.2012.654423>



 Full Article

 Figures & data

 References

 Citations

 Metrics

 Reprints & Permissions

Read this article

## Abstract

A typical bead crochet bracelet consists of a narrow tube of seed beads sewn together to form an uninterrupted hollow band. Creating symmetric colour patterns on bead crochet is a challenging task. In this paper, we explore the mathematical properties of bead crochet patterns and their relationship to wallpaper patterns. We show how the length of the bracelet affects the complexity of the pattern. We also discuss the use of computer-aided design (CAD) to create complex bead crochet patterns. We provide a list of references for further reading on the topic. We also provide a list of keywords for this article.

### We Care About Your Privacy

We and our 845 partners store and/or access information on a device, such as unique IDs in cookies to process personal data. You may accept or manage your choices by clicking below, including your right to object where legitimate interest is used, or at any time in the privacy policy page. These choices will be signaled to our partners and will not affect browsing data. [Privacy Policy](#)

We and our partners process data to provide:

Use precise geolocation data. Actively scan device characteristics for identification. Store and/or access information on a device. Personalised advertising and content, advertising and content measurement, audience research and services development.

[List of Partners \(vendors\)](#)

 I Accept

Essential Only

Show Purpose

# Acknowledgements

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.

## Related research

People also read

Recommended articles

Cited by  
5



## Information for

- Authors
- R&D professionals
- Editors
- Librarians
- Societies

## Opportunities

- Reprints and e-prints
- Advertising solutions
- Accelerated publication
- Corporate access solutions

## Open access

- Overview
- Open journals
- Open Select
- Dove Medical Press
- F1000Research
- Help and information
- Help and contact
- Newsroom
- All journals
- Books

## Keep up to date

Register to receive personalised research and resources by email

 Sign me up

