



BRYN MAWR
DISTRESSING
MATH
COLLECTIVE

POLYMATH JR. REU: SQUARE-FREE WORDS

HEIDI HE '23

This project on squareless words is research on permutations and combinations — given a finite alphabet, what is the lexicographically least word with no repeat of any part of itself? Given a word, is there a pattern in its lexicographically least square-free extension? In this project, we looked at the properties of the morphisms of the lexicographically least square-free extensions, as well as the algorithms that check the combination and determine if it is square-free.

FEBRUARY 9TH AT 7 PM

JOIN AT PARK 245 OR VIA ZOOM
SNACKS TO-GO CAN BE PICKED UP

Zoom Link: [https://brynmawr-
edu.zoom.us/j/95807982212?](https://brynmawr-edu.zoom.us/j/95807982212?)

[pwd=aXBBMnFZMUUyWlDQ1S1d3TGozc0t5Zz09](https://brynmawr-edu.zoom.us/j/95807982212?pwd=aXBBMnFZMUUyWlDQ1S1d3TGozc0t5Zz09)