Bryn Mawr Distressing Math Collective

Pants and Tri-Pants

Avalon Vanis '23

We define and explore basic topological ideas, the surface of the pairs of pants (in the mathematical sense-- although if you have any interesting pants facts please share), and tri-pants. A tri-pant is a particular collection of six homotopy classes of simple closed curves on the surface of the twice-punctured torus such that certain pairs of curves determine a pants decomposition on our surface. We will explore the tri-pants graph-- a graph with vertices corresponding to choices of tri-pants --and the connection of this graph to the Farey graph. In this, we prove that the tri-pants graph has infinite diameter and is connected.

Wednesday, September 15th at 7 PM

Join at Park 245 or via Zoom

Snacks in the Math Lounge before the talk begins!

Zoom Link:

https://brynmawr-edu.zoom.us/j/95807982212?pwd=aXBBMnFZMUUyWDQ1S1d3TGozc0t5Zz09