

The AWM Distinguished Speaker Series presents

Emily Peters

Loyola University

Proof by Pictures

Abstract:

Maybe you've heard of diagram algebras, diagram categories, spiders, planar algebras, or something similar. And you're wondering, is this really math? Are the pictures an analogy or are they actual mathematical objects? Happily, there are rigorous mathematical frameworks that have pictures as their ingredients. I'll tell you about some of the most exciting examples, including the Temperley-Lieb algebra (and its relation to knot theory), the color-counting planar algebra (and the five-color theorem), and the extended Haagerup subfactor (joint work with Bigelow, Morrison and Snyder).

Friday, November 18th, 2022
12 - 1pm in University Hall 210

Everyone is welcome to attend this graduate-level talk hosted by the UO Student Chapter of the Association for Women in Mathematics