

# Michigan Math Club

Thursday at 4pm in the Nesbitt Room

Free Pizza and Pop

*Moduli Spaces: study the  
forest, not the trees*

Rachel Webb

Abstract for 5 April 2018

We spend a lot of time studying mathematical objects (e.g. vector spaces) as discrete phenomena, "the trees." Moduli spaces are a way to assemble related mathematical objects into a "forest" (e.g., the moduli space of 1-dimensional subspaces of  $\mathbb{R}^3$ ). Moduli spaces are often interesting mathematical objects in their own right, and can sometimes provide insight into the original objects you were trying to study. In this talk we will try out many examples of moduli spaces, favoring those from the category of sets. Come prepared to get your hands---er, papers dirty!

