DR. AMBER RUSSELL

MONDAY FEBRUARY 13TH
AT 4:00PM

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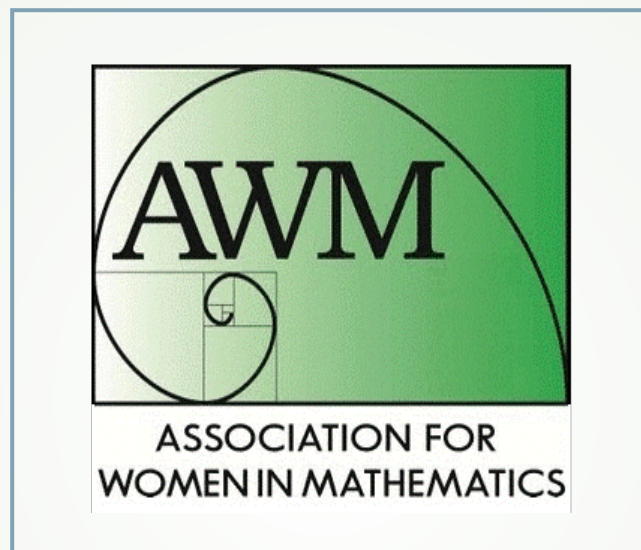
Located in Math 250.

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THE SPRINGER CORRESPONDENCE AND RELATED TOPICS

In this talk, we will go over the definition of the Springer correspondence and see how perverse sheaves give a proof of it. We will also discuss how it relates to other topics in representation theory, and particularly emphasize its generalization due to Lusztig. I am currently working on a joint project with Martha Precup (North- western) and William Graham (UGA) that gives a new proof of the generalized Springer correspondence in the case of $G = SL_n(C)$, and I will talk briefly about this new construction. The talk is aimed to be accessible to an audience having taken a graduate level algebra course.