1131-57-317 **Kate Petersen*** (petersen@math.fsu.edu). *Representations of Knot Groups.* Preliminary report.

The SL(2,C) character variety of a knot is the space of all representations of the fundamental group into SL(2,C) up to trace equivalence. The character variety carries a wealth of information about the topology of the knot complement. I'll discuss some special representations and how they shed light on the geometry of the character variety. (Received July 17, 2017)