

1145-57-2014 **Maxime Bergeron***, mbergeron@math.uchicago.edu. *The topology, geometry and arithmetic of representation varieties*. Preliminary report.

Let Γ be a finitely generated group and let G be a complex reductive algebraic group defined over the integers. I will discuss the topology of the space of representations $Hom(\Gamma, G)$ and ask questions about its relationship to the arithmetic of the underlying variety. (Received September 24, 2018)