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Eduardo González* (eduardo.gonzalez@umb.edu), Maths Dept, 100 Morrissey Blvd, Boston, MA 02125, and **Daniel Halpern-Leistner** and **Pablo Solis**. *Stratifications of gauged maps*.

Let G be a reductive group and X be a smooth projective G -variety. In classical geometric invariant theory (GIT), there are stratifications of X that can be used to understand the geometry of the GIT quotients $X//G$ and their dependence on choices. In this talk, after introducing basic theory, I will discuss the moduli of gauged maps, their relation to the Gromov-Witten theory of GIT quotients $X//G$ and work in progress regarding stratifications of the moduli space of gauged maps as well as possible applications to quantum K-theory. This is joint work with D. Halpern-Leistner, P. Solis. (Received January 18, 2021)