1118-05-70 **Joseph Kung*** (kung@unt.edu), 4563 Coyote Point, Denton, TX 762208-323. *The $\mathcal{G}$-invariant and catenary data of a matroid.*

The $\mathcal{G}$-invariant is a universal valuative invariant on decompositions of matroid base polytopes (Derksen and Fink); in particular, the Tutte polynomial is one of its specializations. The catenary data of a matroid is a vector containing numerical information about flags of flats of the matroid. The caternary data and the $\mathcal{G}$-invariant are "cryptomorphic", in the sense that they contain the same information about the matroid. We will talk about the catenary data. (Received January 20, 2016)