

1135-18-2884      **Paige North\*** (paigenorth@gmail.com). *Weak factorization systems as models of dependent type theory*. Preliminary report.

In this talk, I will describe the foundational relationship between homotopy theory and dependent type theory: that is, I will describe those (non-functional, non-algebraic) weak factorization systems which form display map categories with fairly weak  $\Sigma$ ,  $\Pi$ , and  $\text{Id}$  types. If time permits, I will also touch on the relationship between weak factorization systems and comprehension categories. (Received September 26, 2017)