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**Zachery Lindsey\*** (zalindse@indiana.edu). *Localization of Quasicategories with Calculi of Right Fractions.*

Working in the model of quasicategories, we define a generalization of a calculus of right fractions for a relative quasicategory  $(\mathcal{C}, \mathcal{W})$ . We also show that a marked version of  $\text{Ex}(\mathcal{C})$  models the localization  $\mathcal{C}[[\mathcal{W}^{-1}]]$ , and when the pair  $(\mathcal{C}, \mathcal{W})$  admits a calculus of right fractions, then this marked Ex construction is already a quasicategory. Hence the usual models of mapping spaces in a quasicategory can be readily applied to compute the mapping spaces in  $\mathcal{C}[[\mathcal{W}^{-1}]]$  in this case. (Received January 04, 2017)