

MODELS FOR RATIONAL $(\infty, 1)$ -CATEGORIES

ELEFTHERIOS CHATZITHEODORIDIS

ABSTRACT. We introduce rational $(\infty, 1)$ -categories, which are $(\infty, 1)$ -categories enriched in spaces whose higher homotopy groups are rational vector spaces. We discuss two models for rational $(\infty, 1)$ -categories: rational complete Segal spaces and rational Segal categories.

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VA 22904
Email address: `thp5uc@virginia.edu`