

Bicategories of fractions for groupoids in monadic categories

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The bicategory of fractions [2] of the 2-category of internal groupoids and internal functors in groups with respect to weak equivalences (i.e. functors which are internally full, faithful and essentially surjective [1]) has an easy description: one has just to replace internal functors by monoidal functors [3]. The aim of this talk is to present a generalization of this result from groups to any monadic category over a regular category \mathcal{C} , assuming that the axiom of choice holds in \mathcal{C} . For \mathbb{T} a monad on \mathcal{C} , the bicategory of fractions of $\text{Grpd}(\mathcal{C}^{\mathbb{T}})$ with respect to weak equivalences is now obtained replacing internal functors by what we call \mathbb{T} -monoidal functors.

REFERENCES

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*Joint work with Enrico Vitale