Wide right Morita contexts in bicategories with lax units

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The concept of Morita contexts between unital rings or monoids can be generalized using the concept of *wide right Morita contexts* [1] in bicategories. For Morita contexts between semigroups, we need to assume some things about the semigroups and the Morita contexts in order to get a theory similar to the case of monoids [2].

We study how some of the assumptions on semigroups and Morita contexts in [2] can be translated into the bicategorical setting. In order to do that, we define wide right Morita contexts in *lax-unital bicategories* and give a few generalized results that this definition allows for.

References

[1] L. El Kaoutit. Wide morita contexts in bicategories, *Arab. J. Sci. Eng.* 33, 2008, 153–173.

[2] M. V. Lawson, Morita equivalence of semigroups with local units, *J. Pure Appl. Algebra* 215, 2011, 455–470.